

FIG. 1

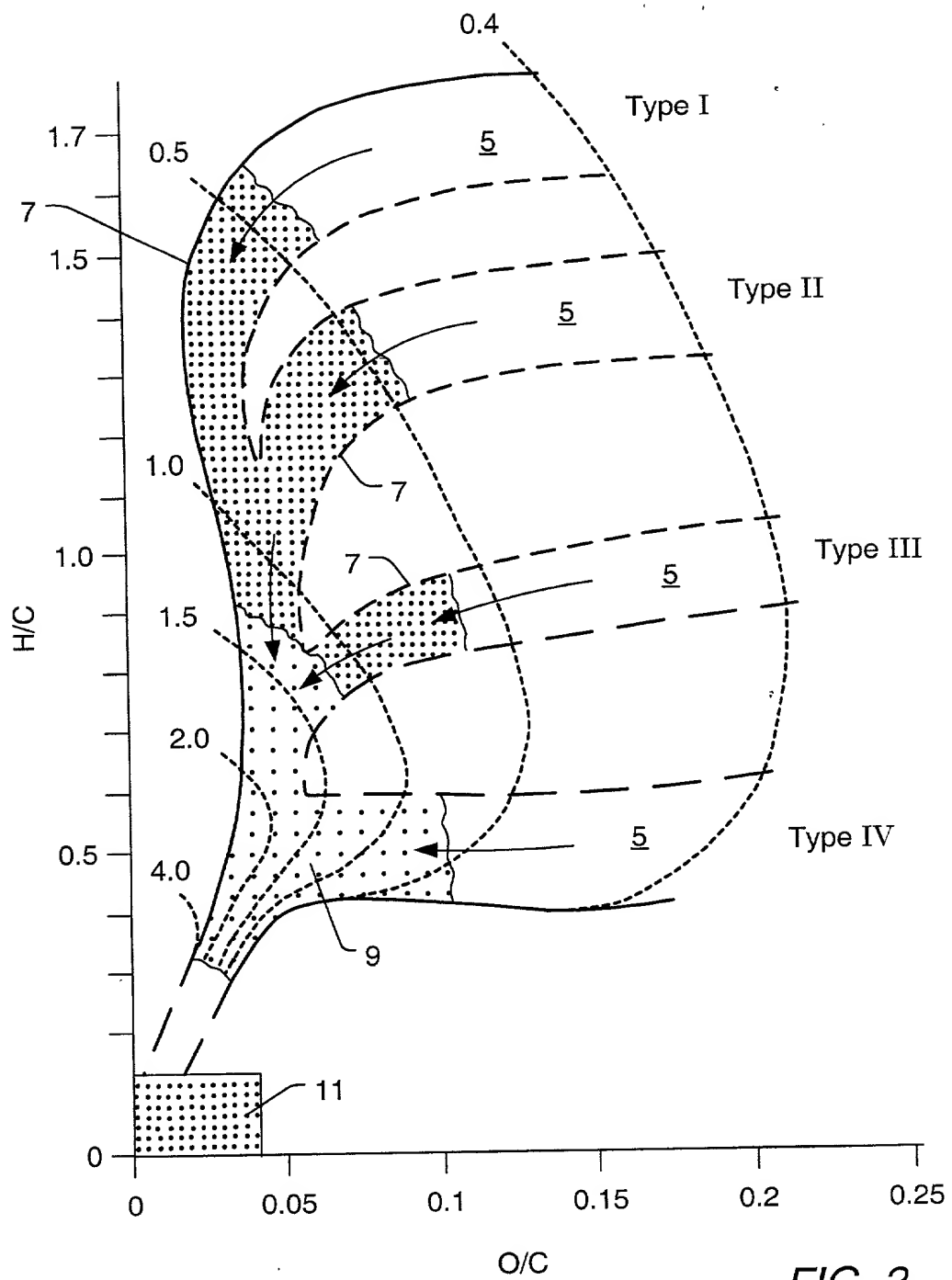
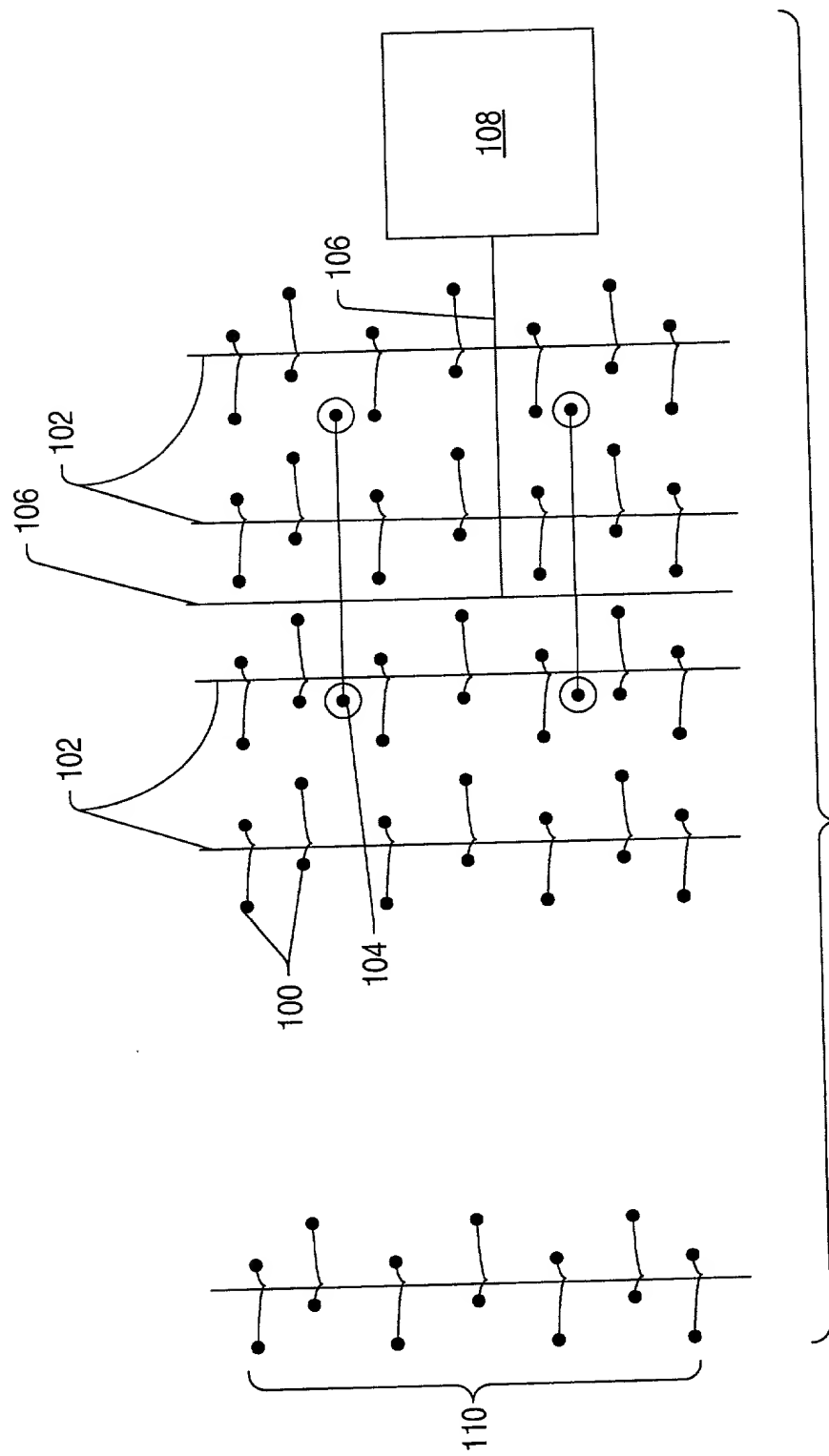


FIG. 2



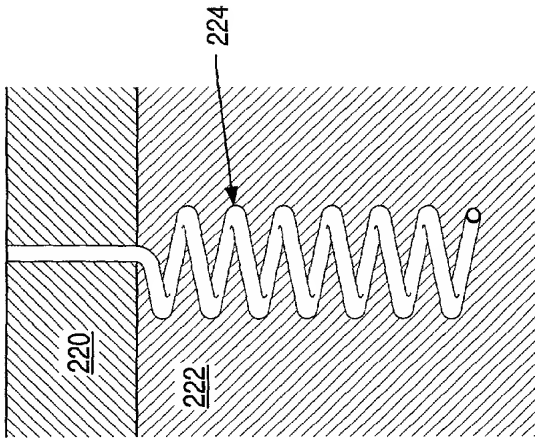


FIG. 3a

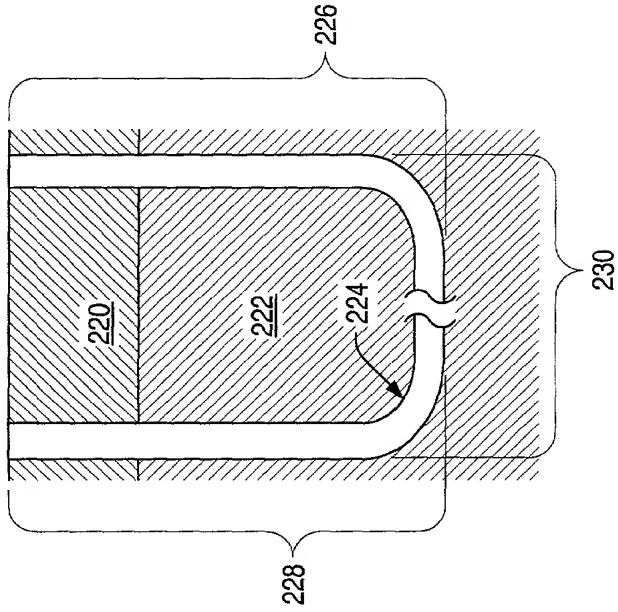


FIG. 3b

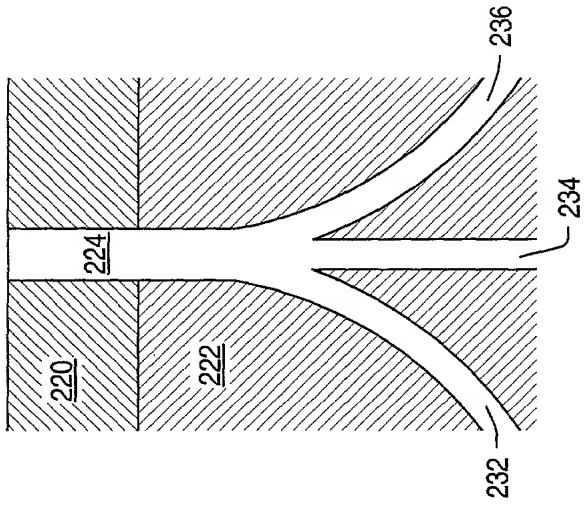


FIG. 3c

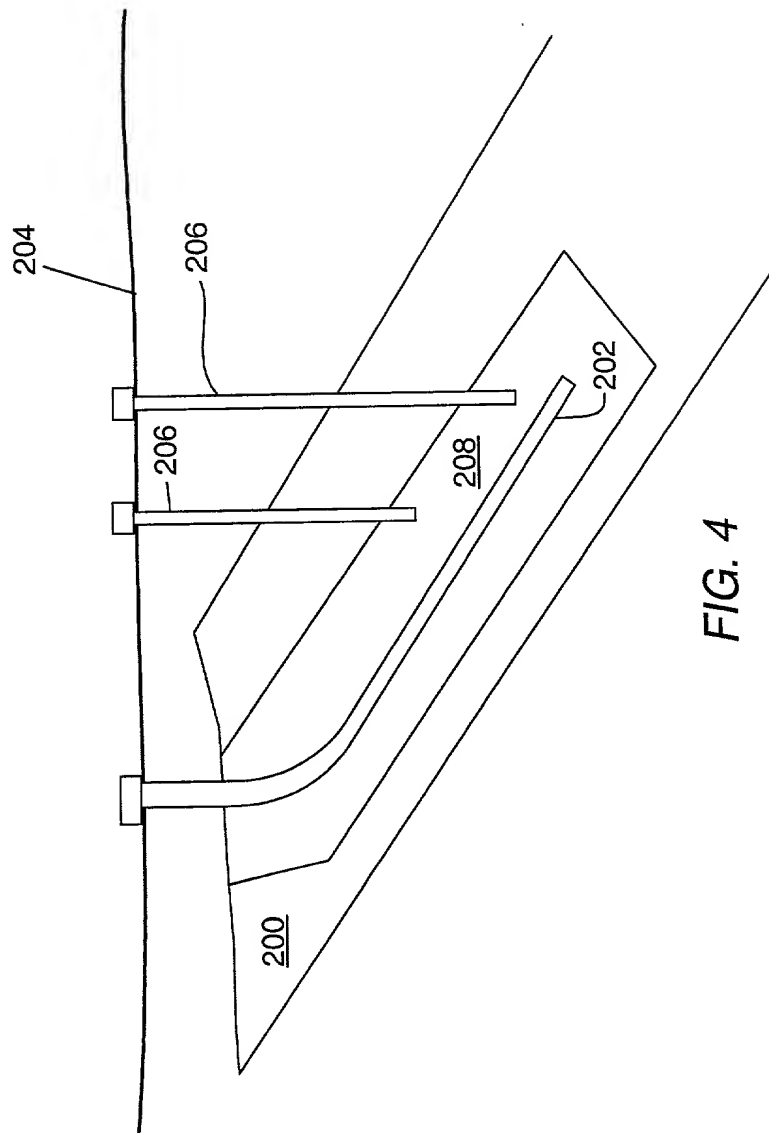
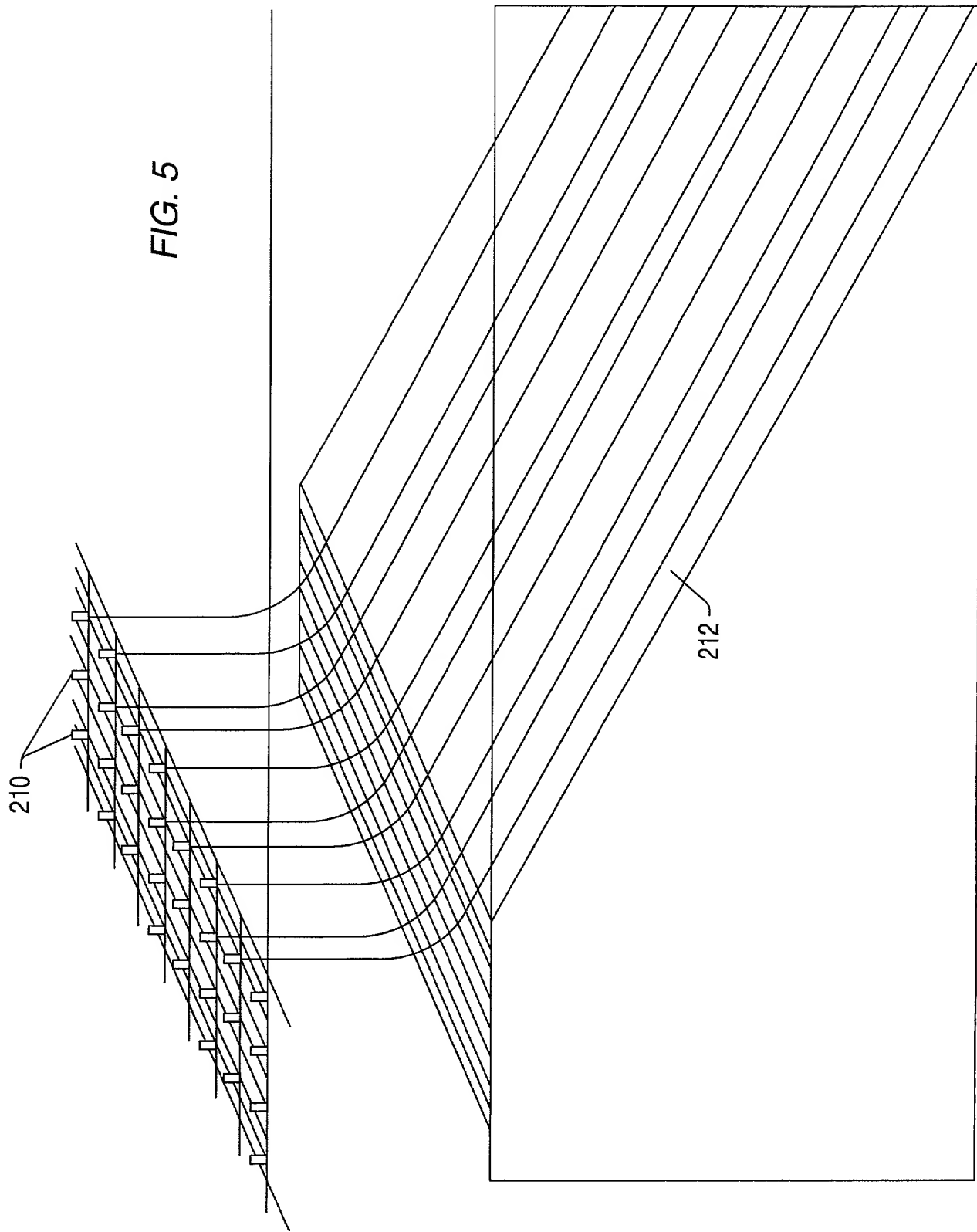


FIG. 4



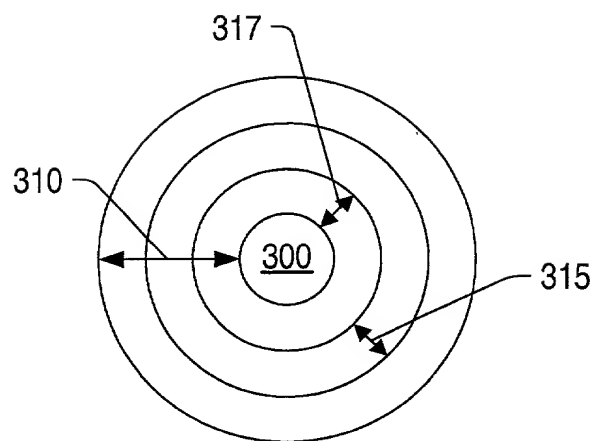


FIG. 6

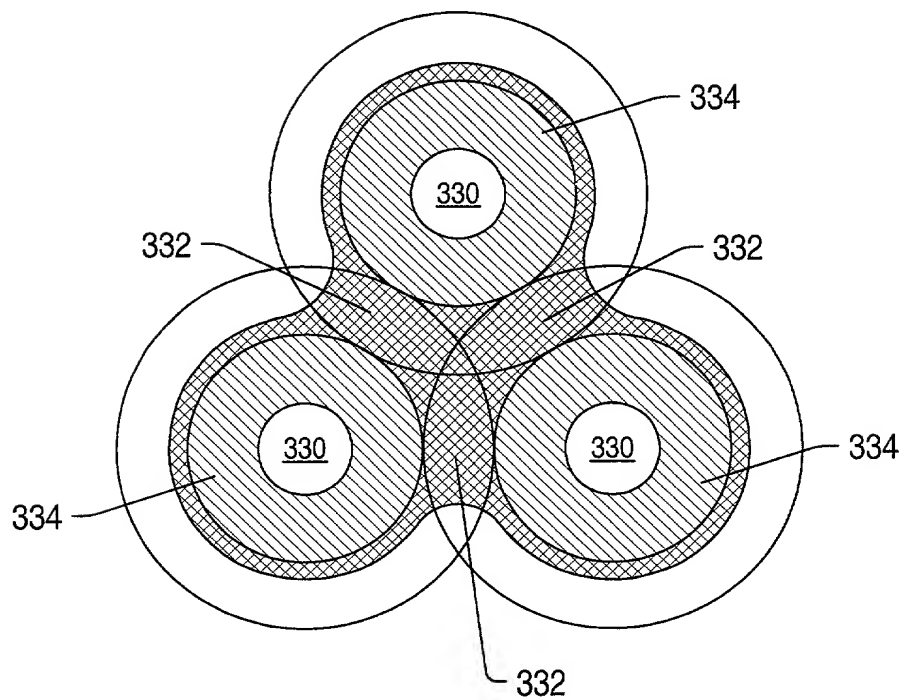


FIG. 7

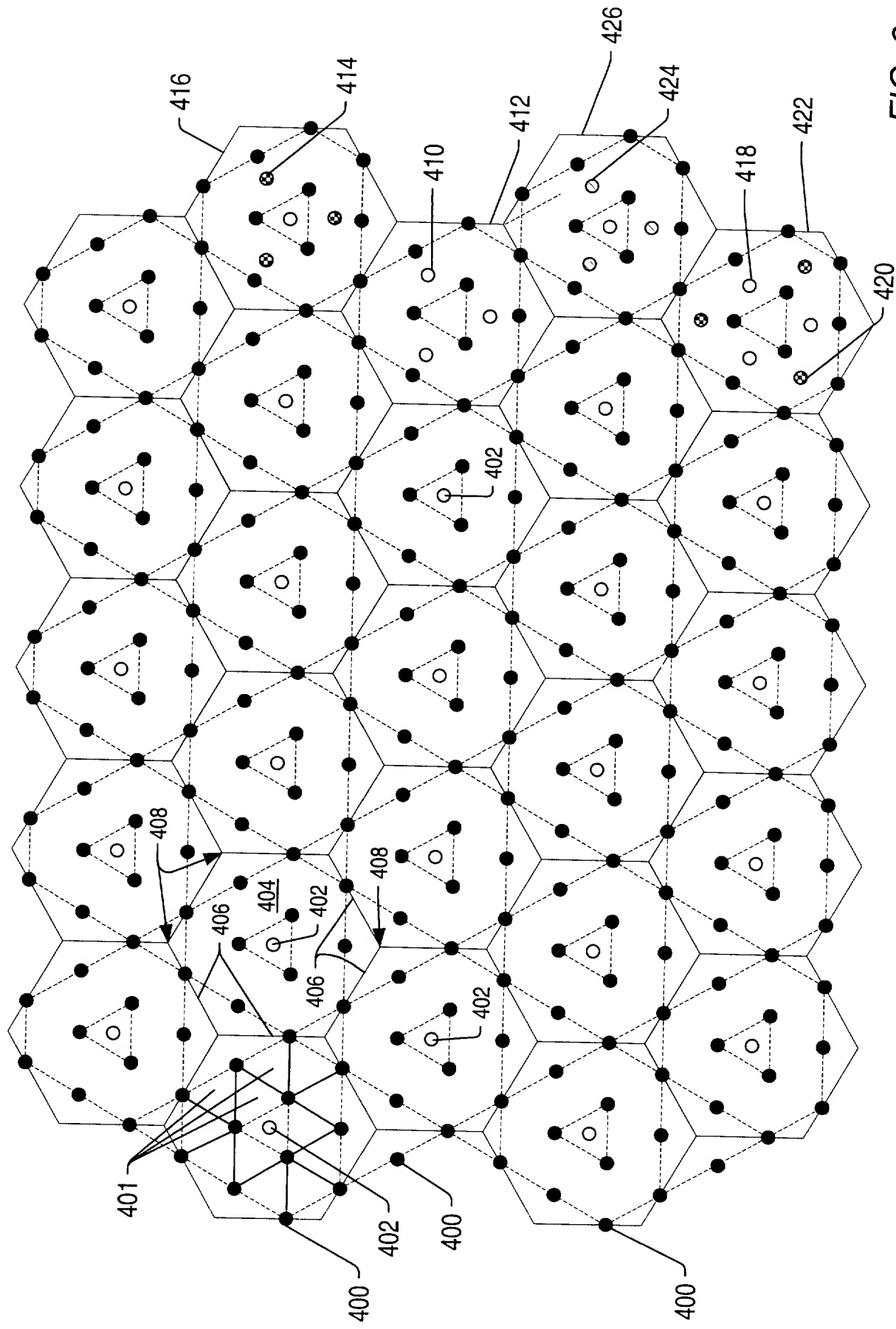


FIG. 8

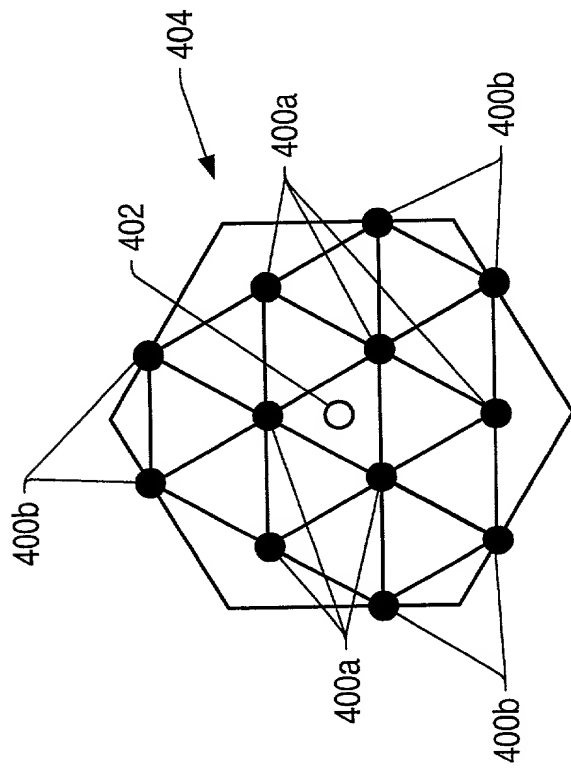


FIG. 9

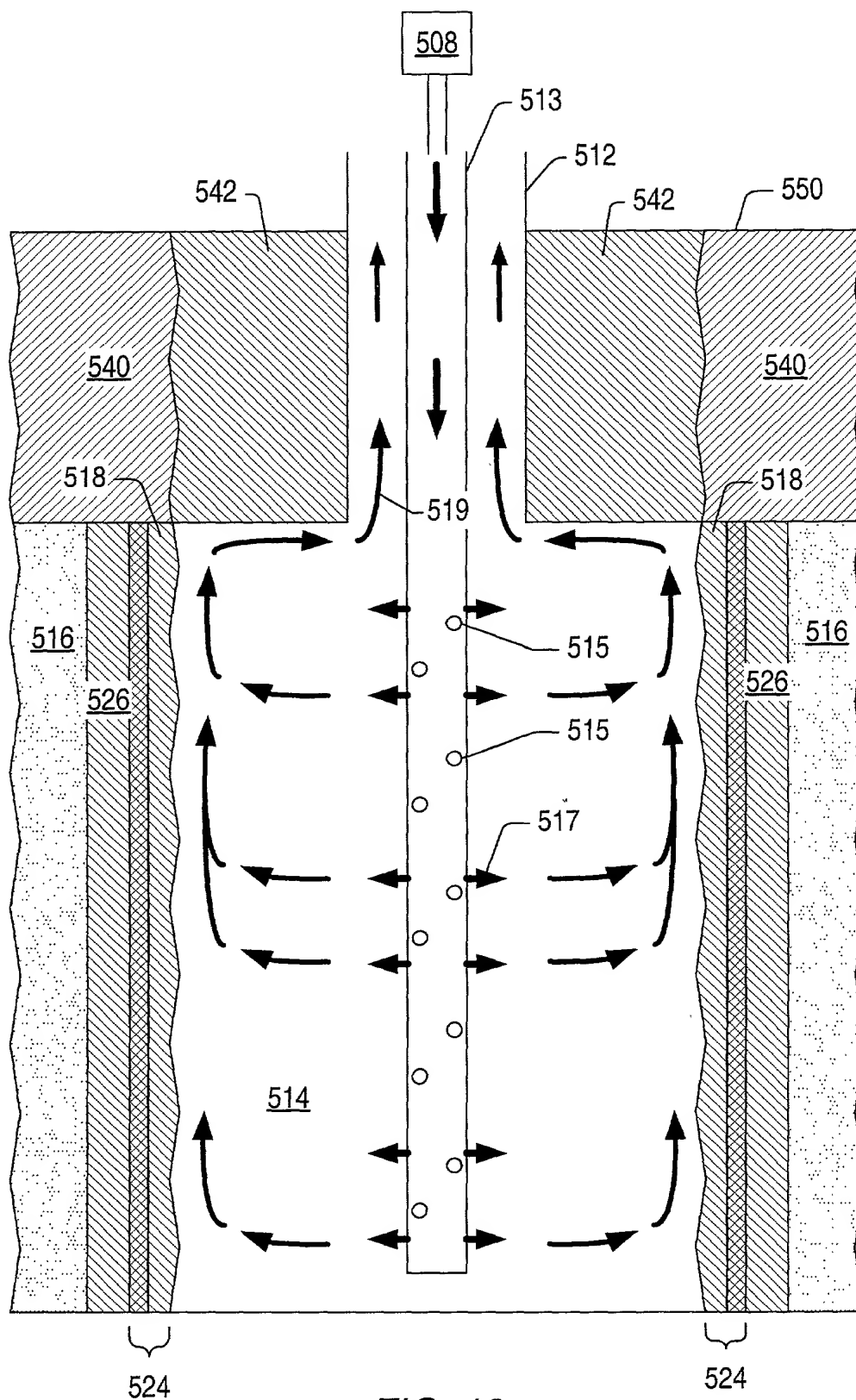


FIG. 10

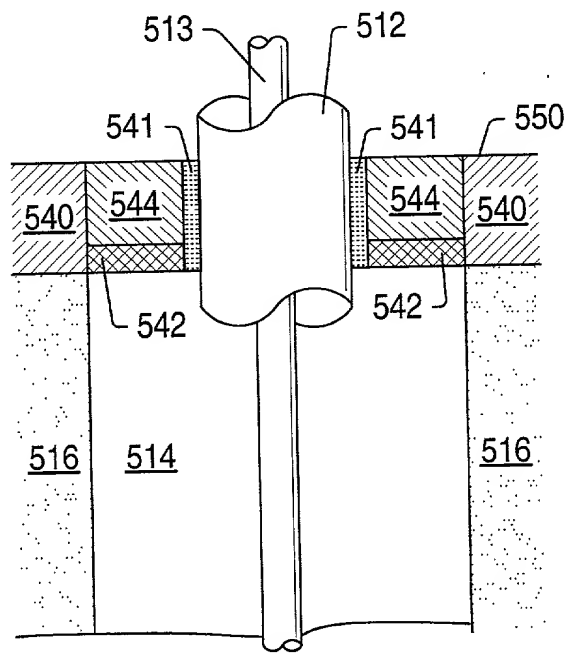


FIG. 11

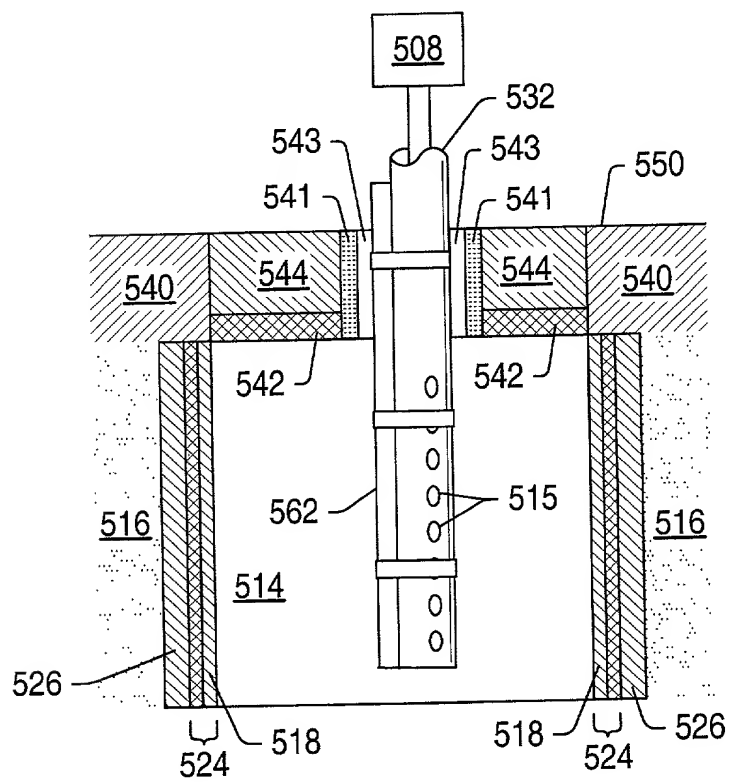


FIG. 12

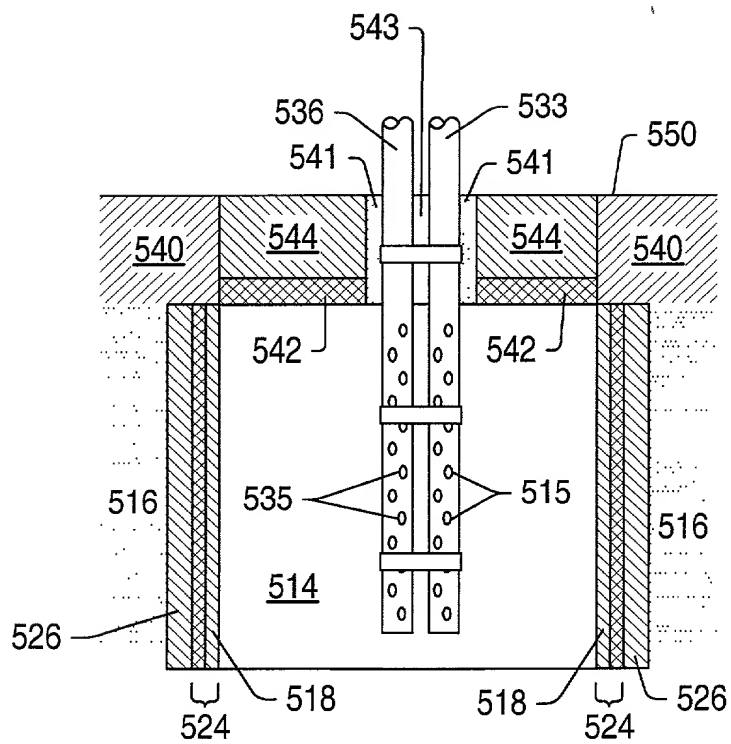


Fig. 13

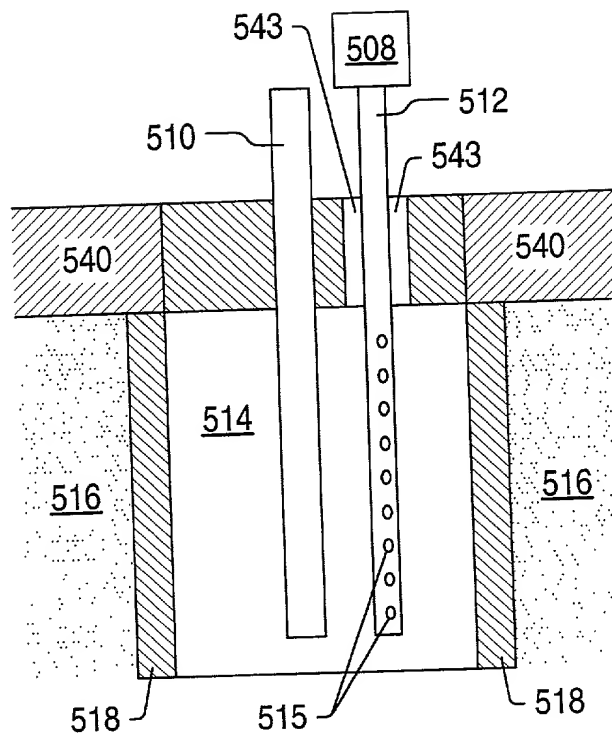


FIG. 14

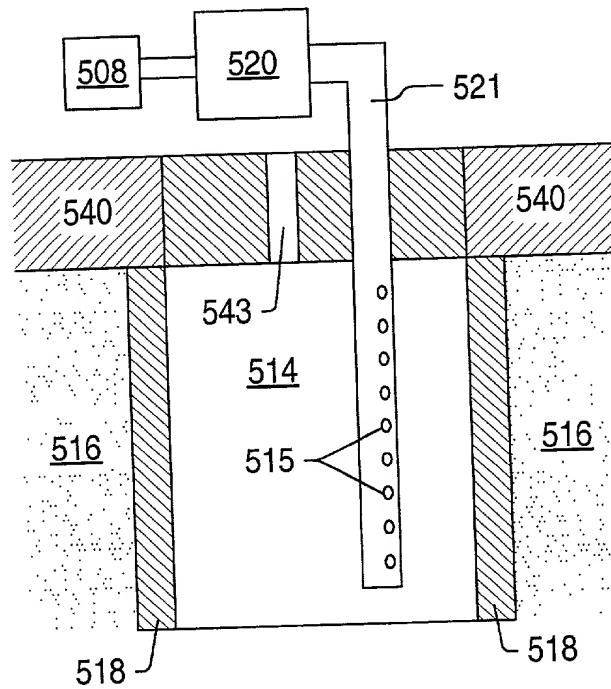


FIG. 15

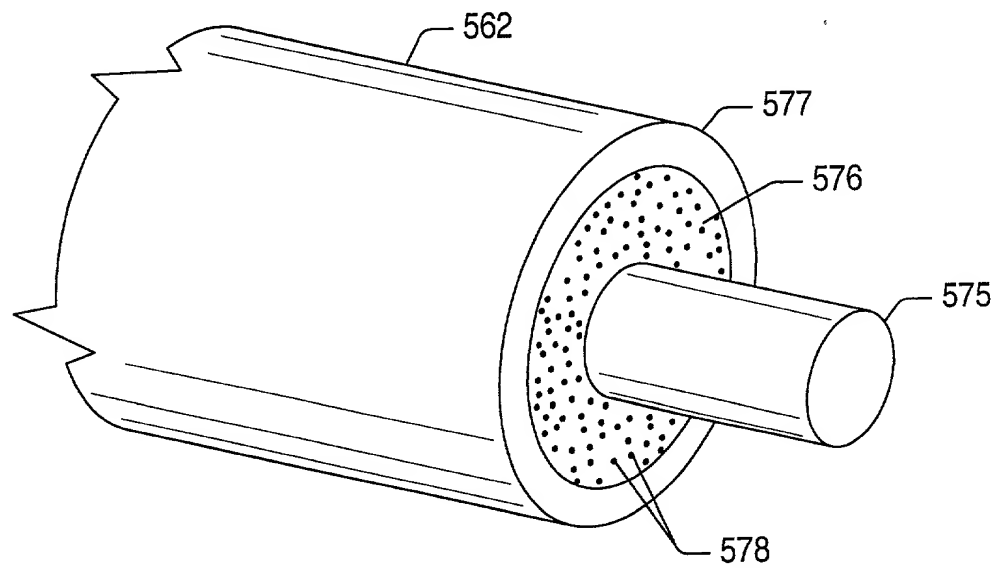


FIG. 16

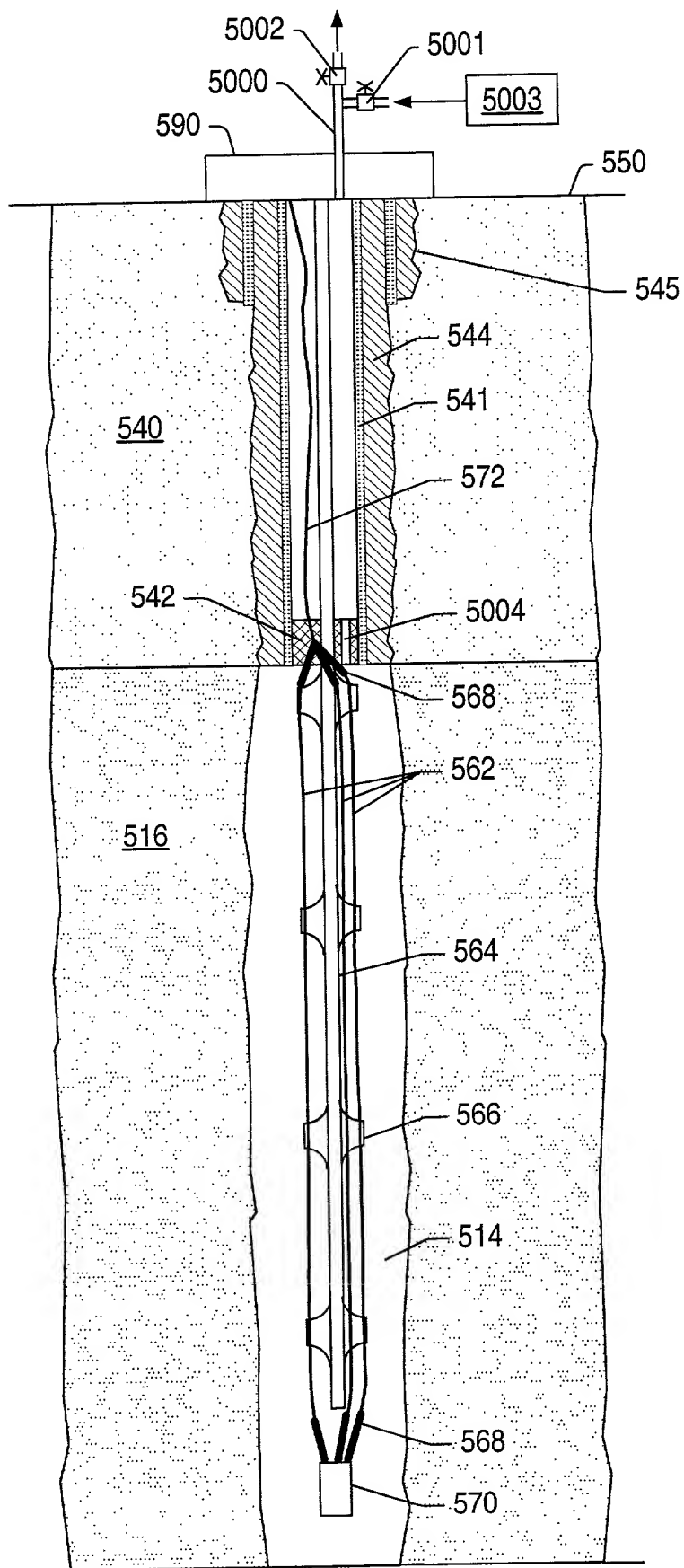


FIG. 17

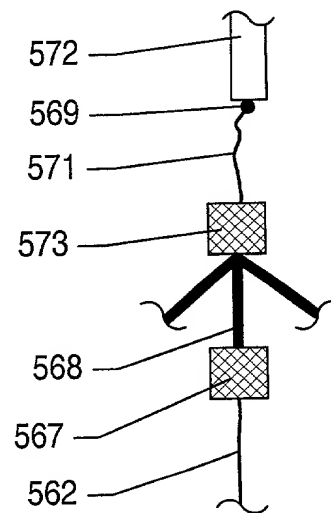


FIG. 17A

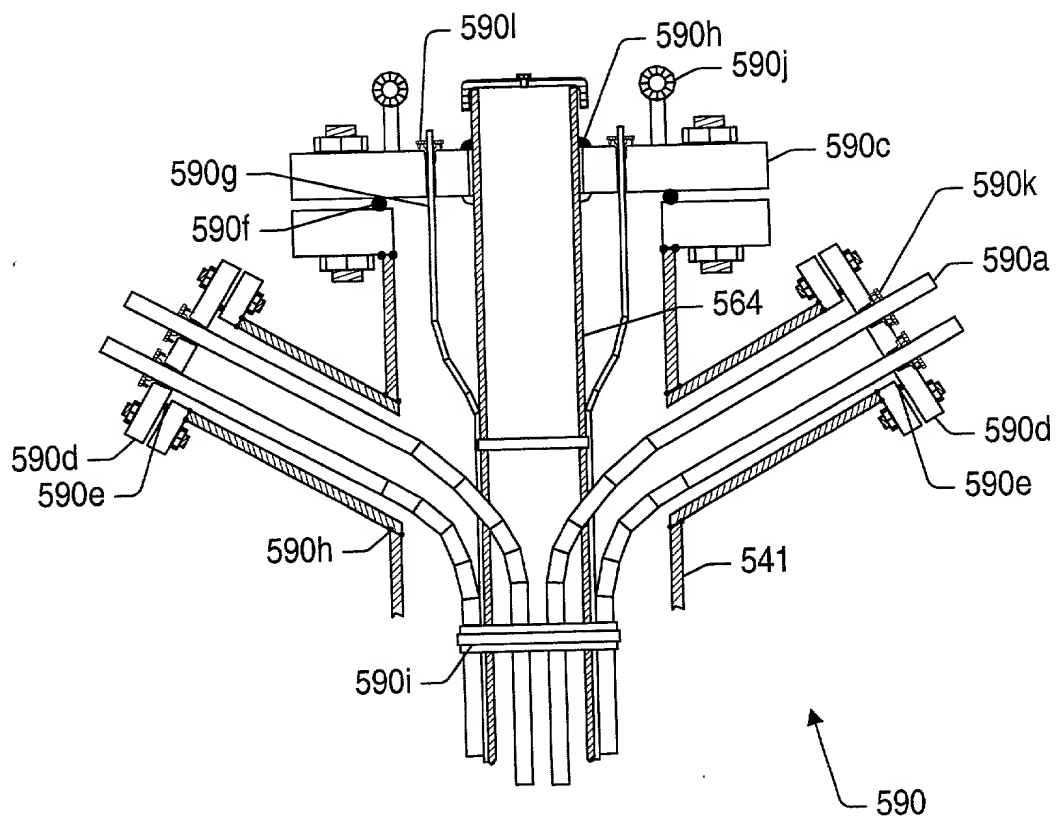


FIG. 18

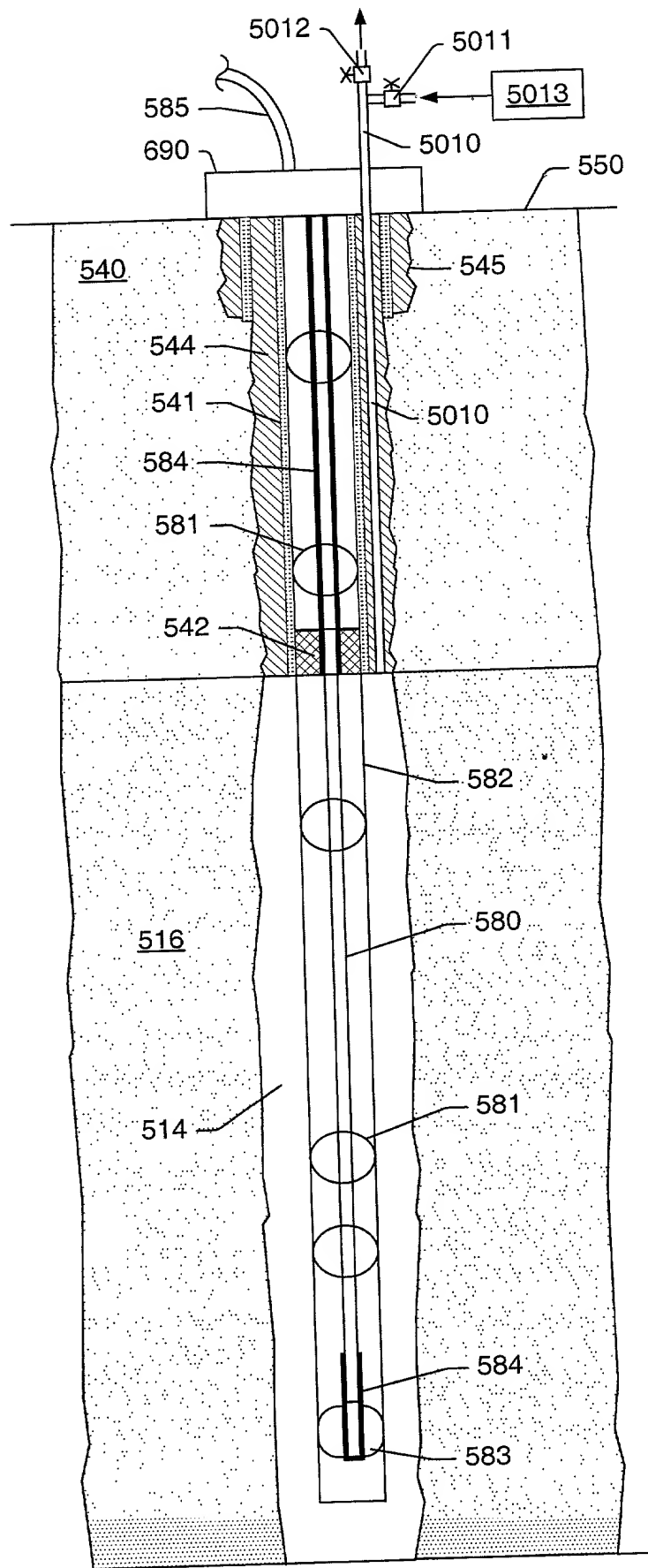


FIG. 19

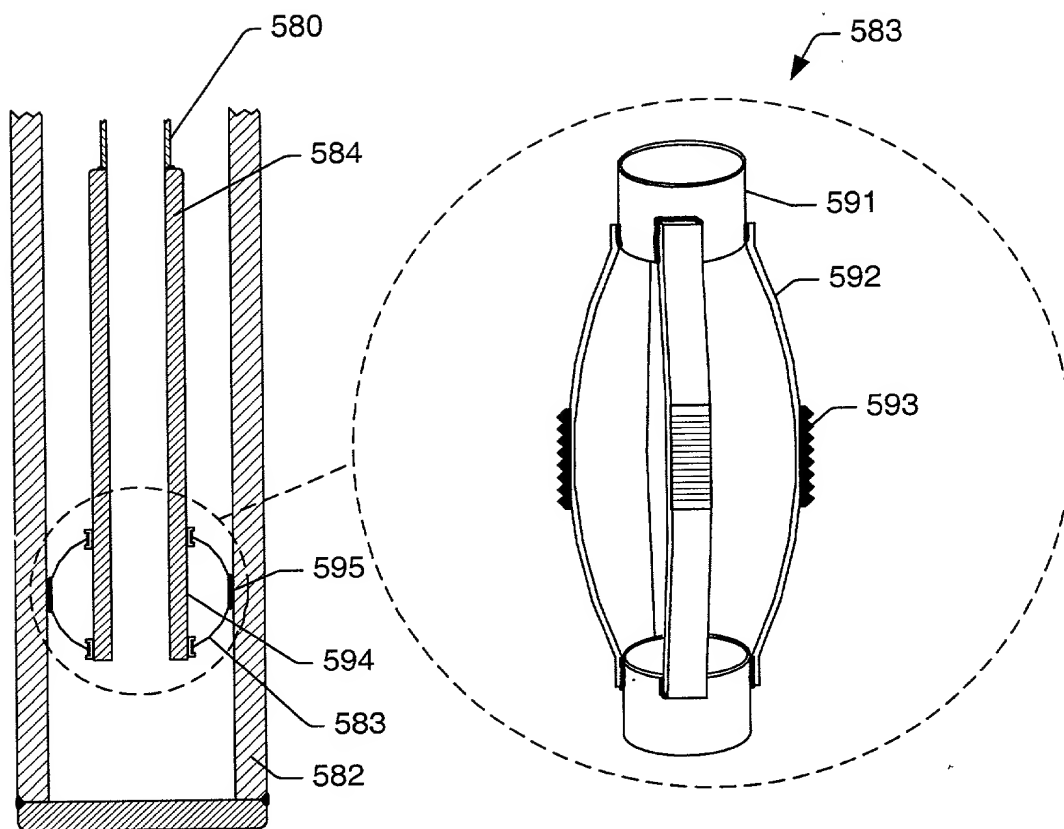


FIG. 20

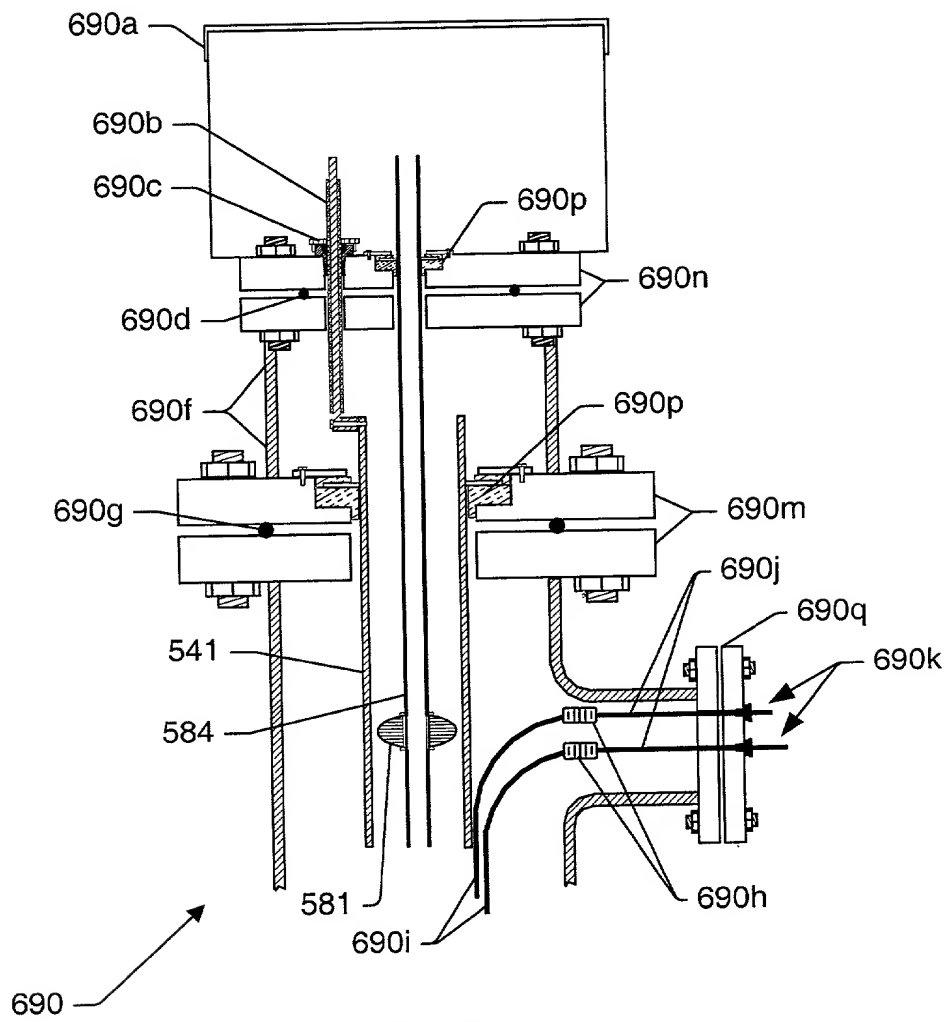


FIG. 21

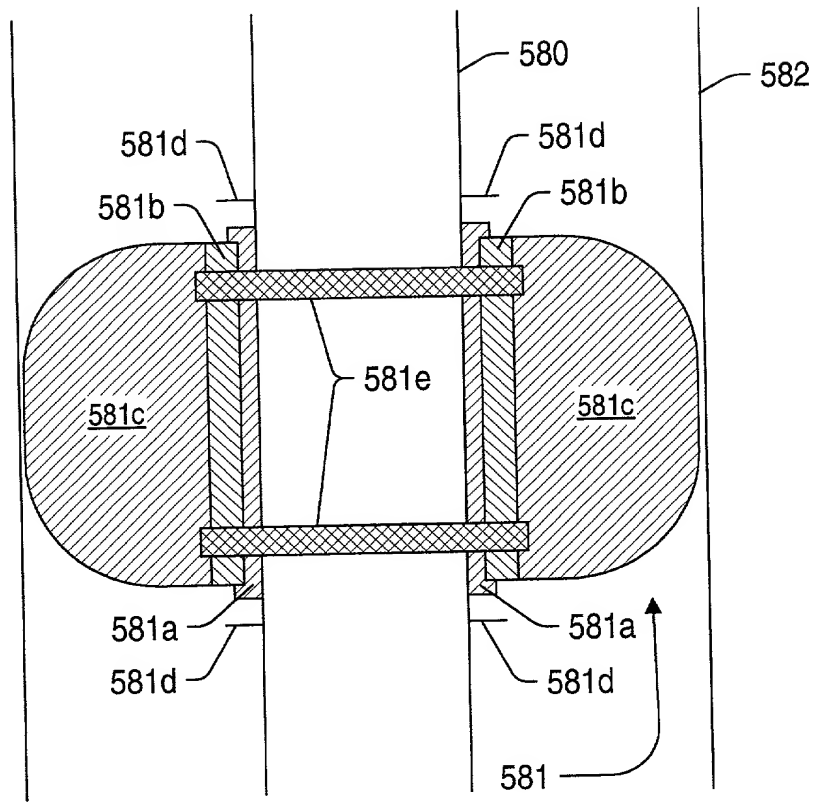


FIG. 22

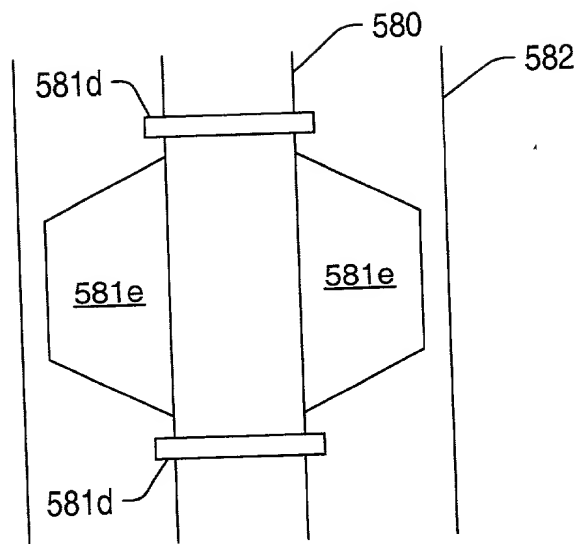


FIG. 23a

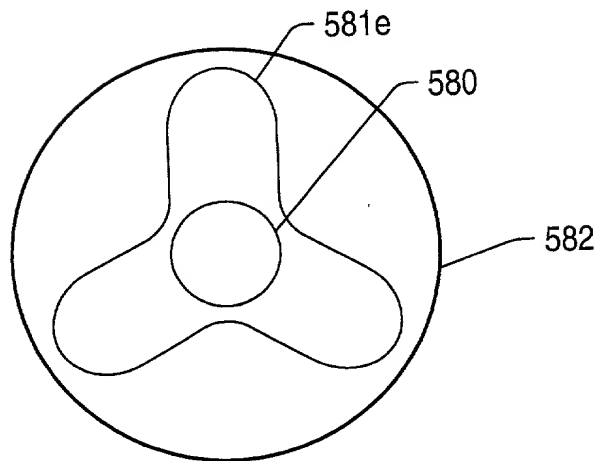


FIG. 23b

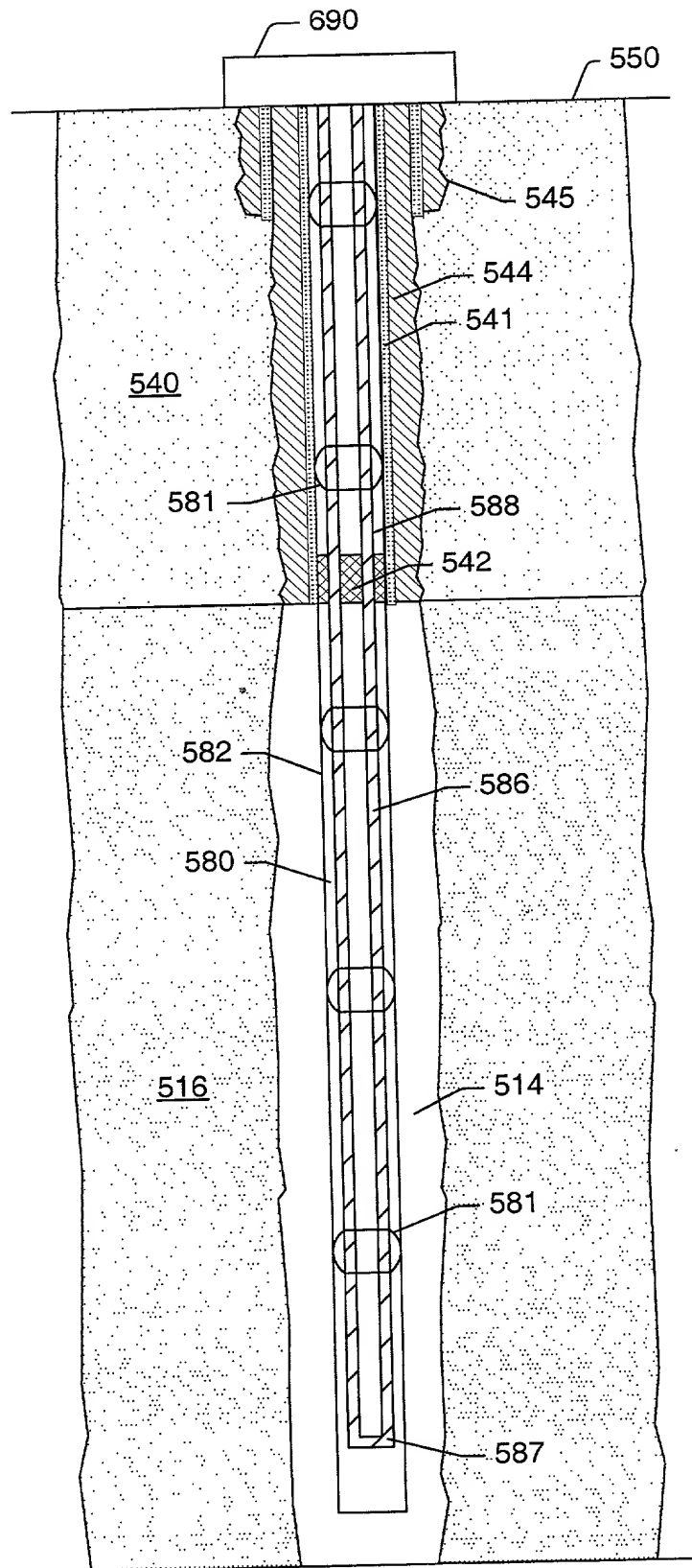


Fig. 24

FIG. 25

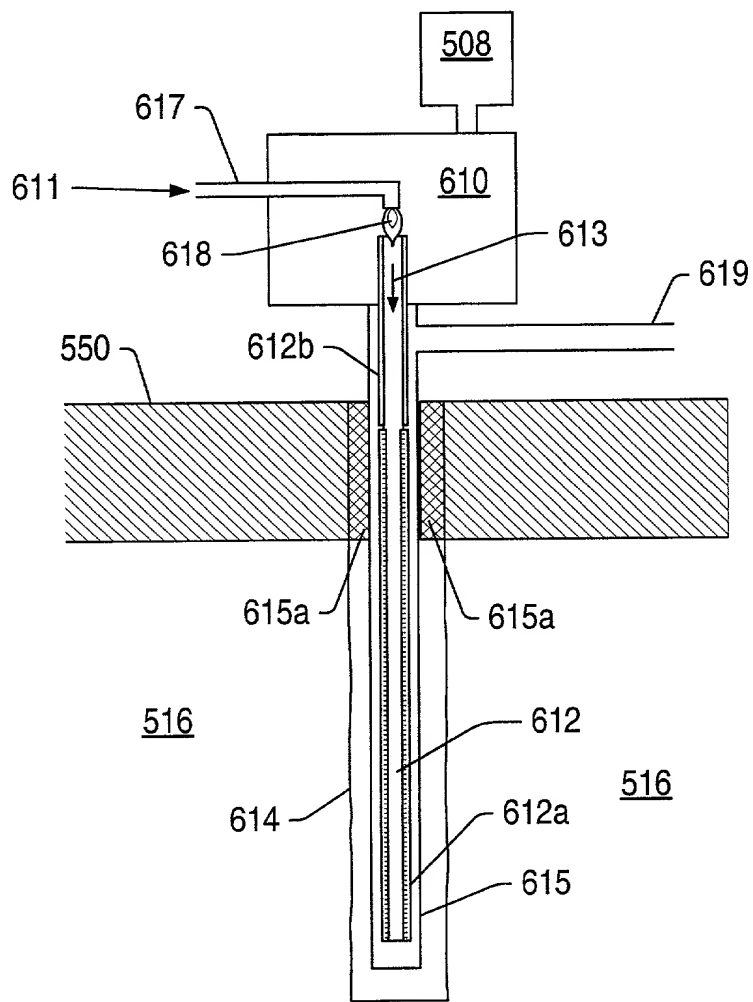


FIG. 26

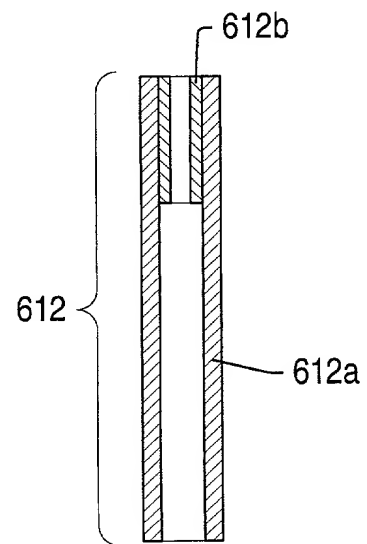


FIG. 27

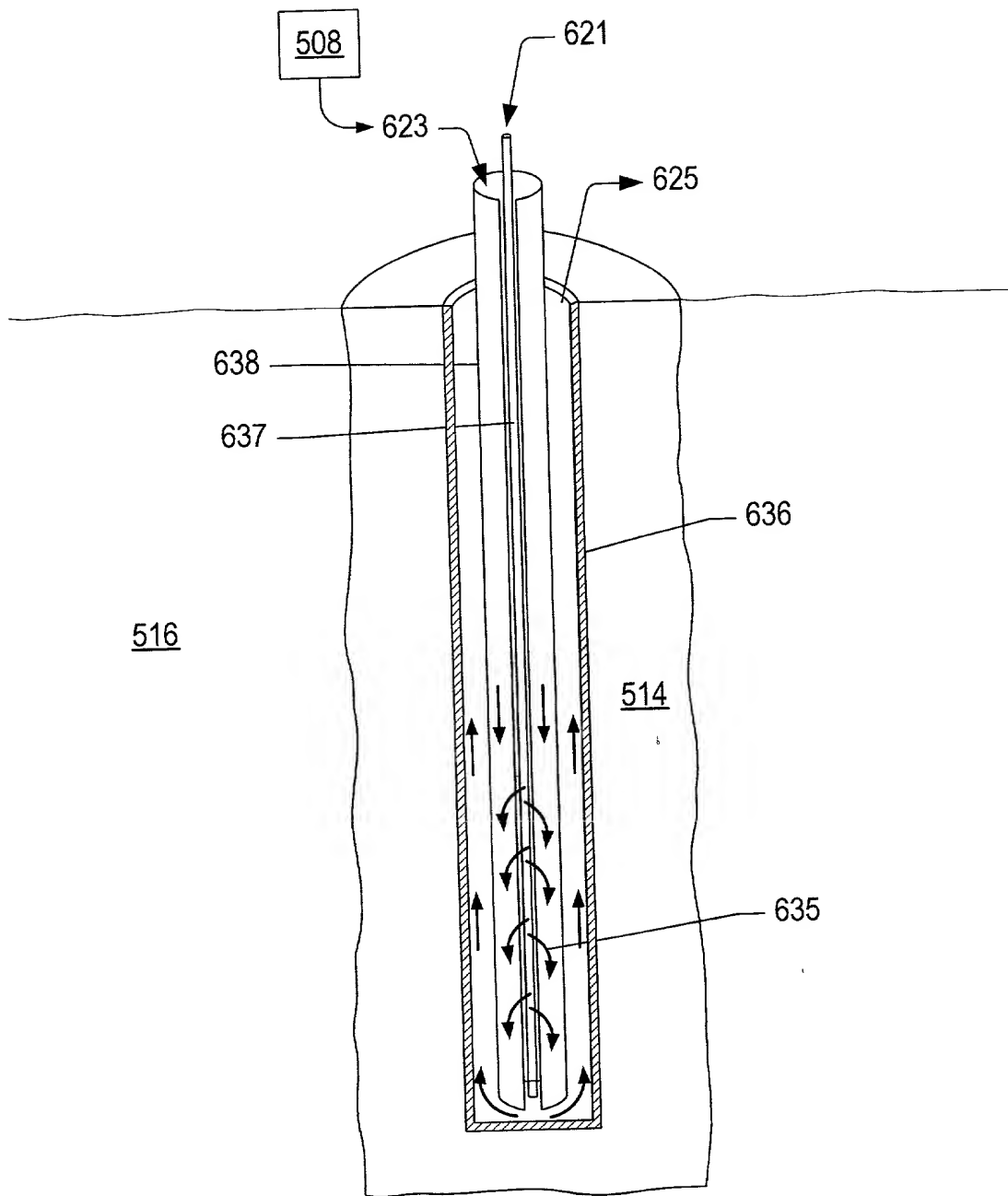


FIG. 28

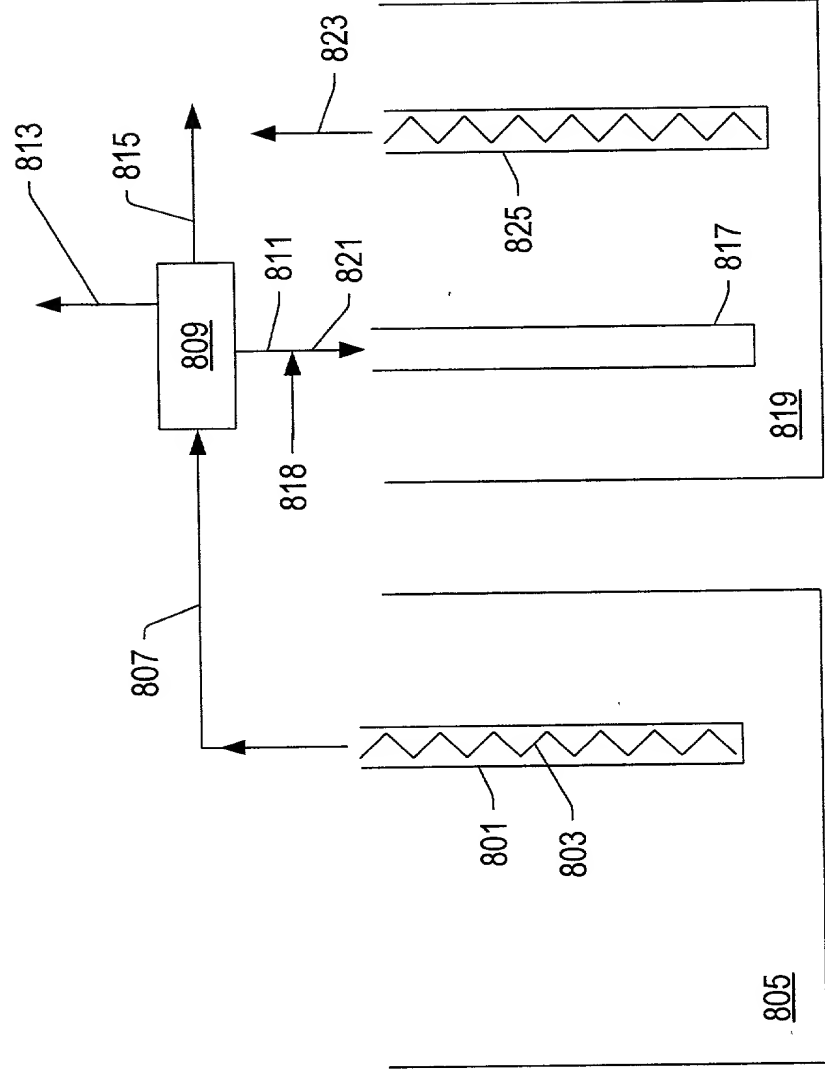


FIG. 29

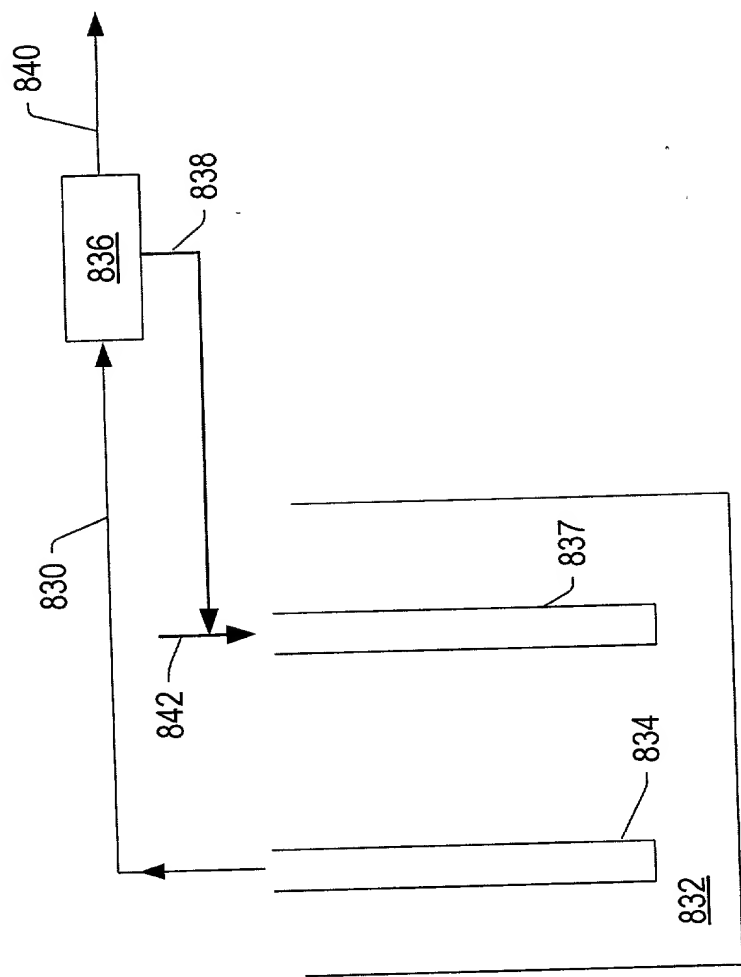


FIG. 30

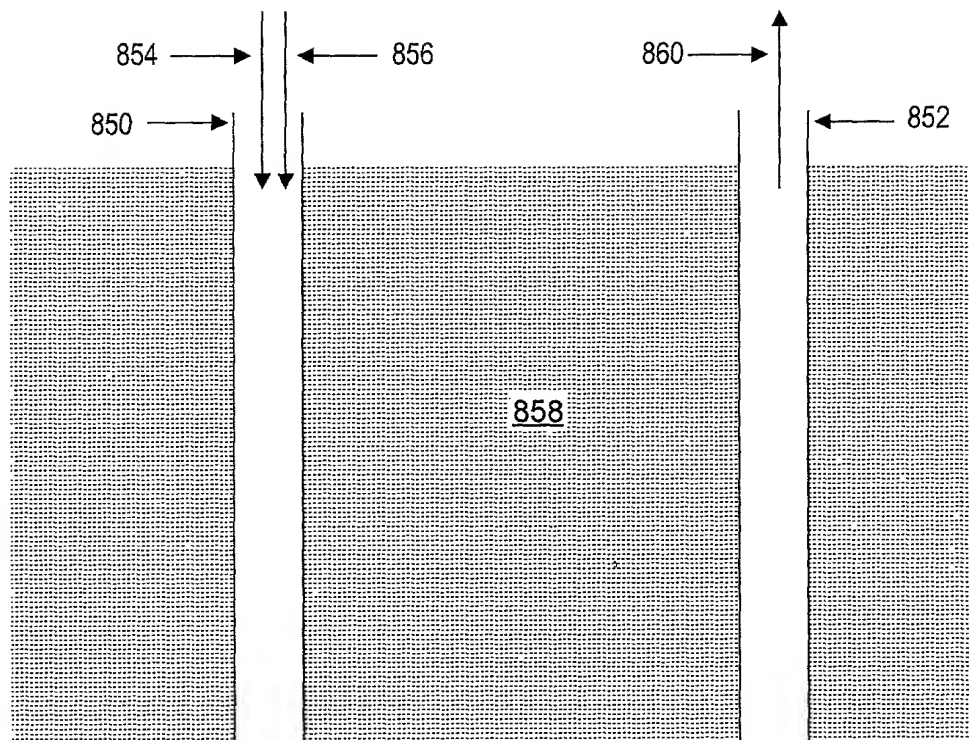


FIG. 31

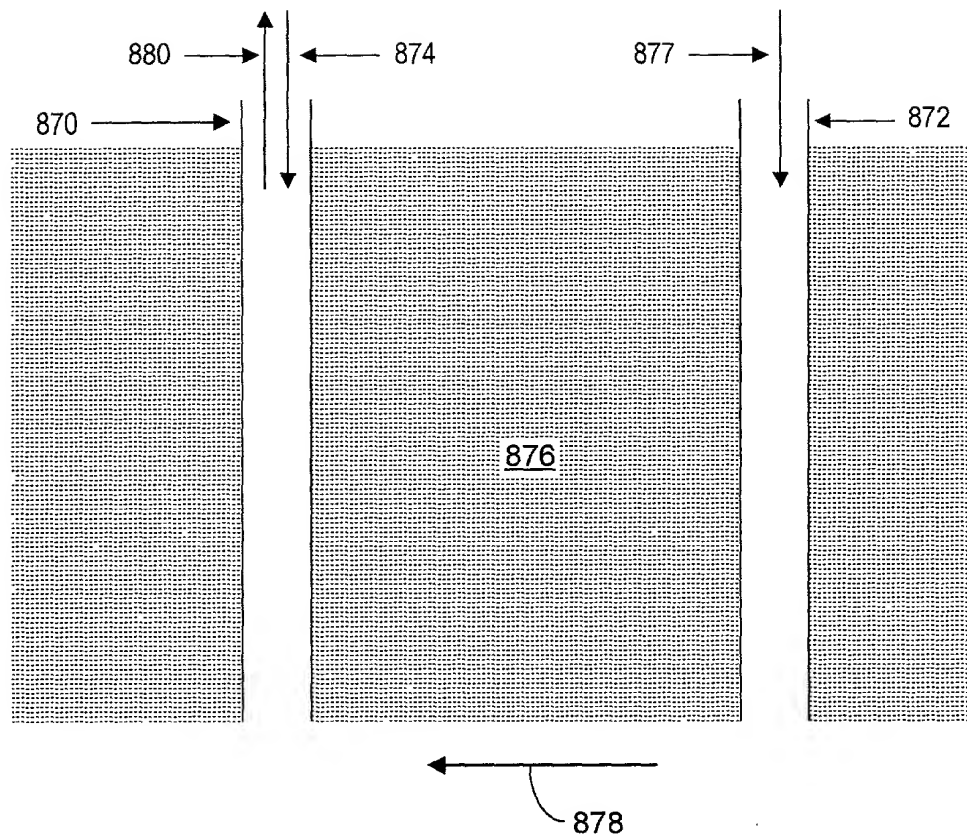


FIG. 32

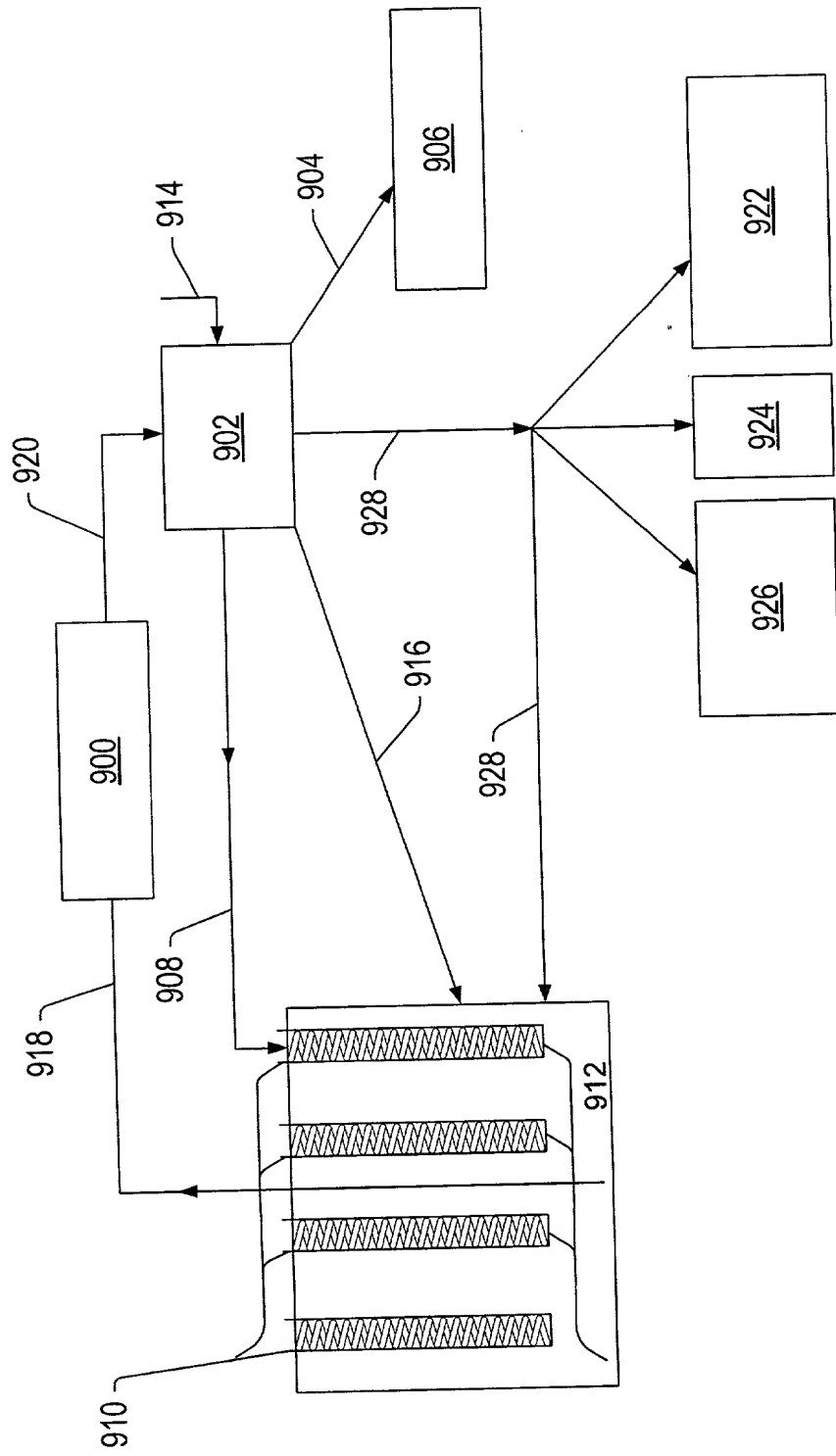


FIG. 33

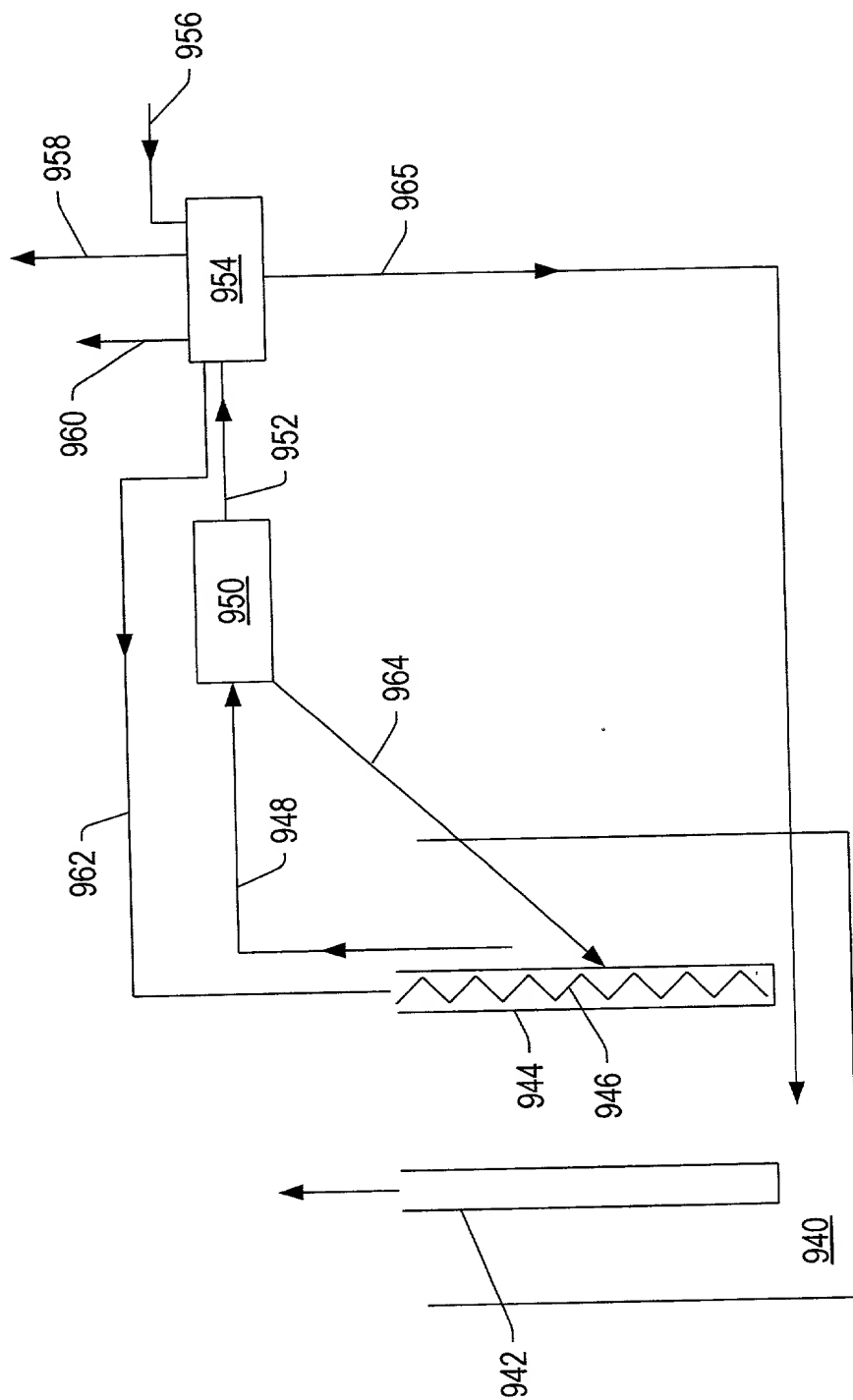


FIG. 34

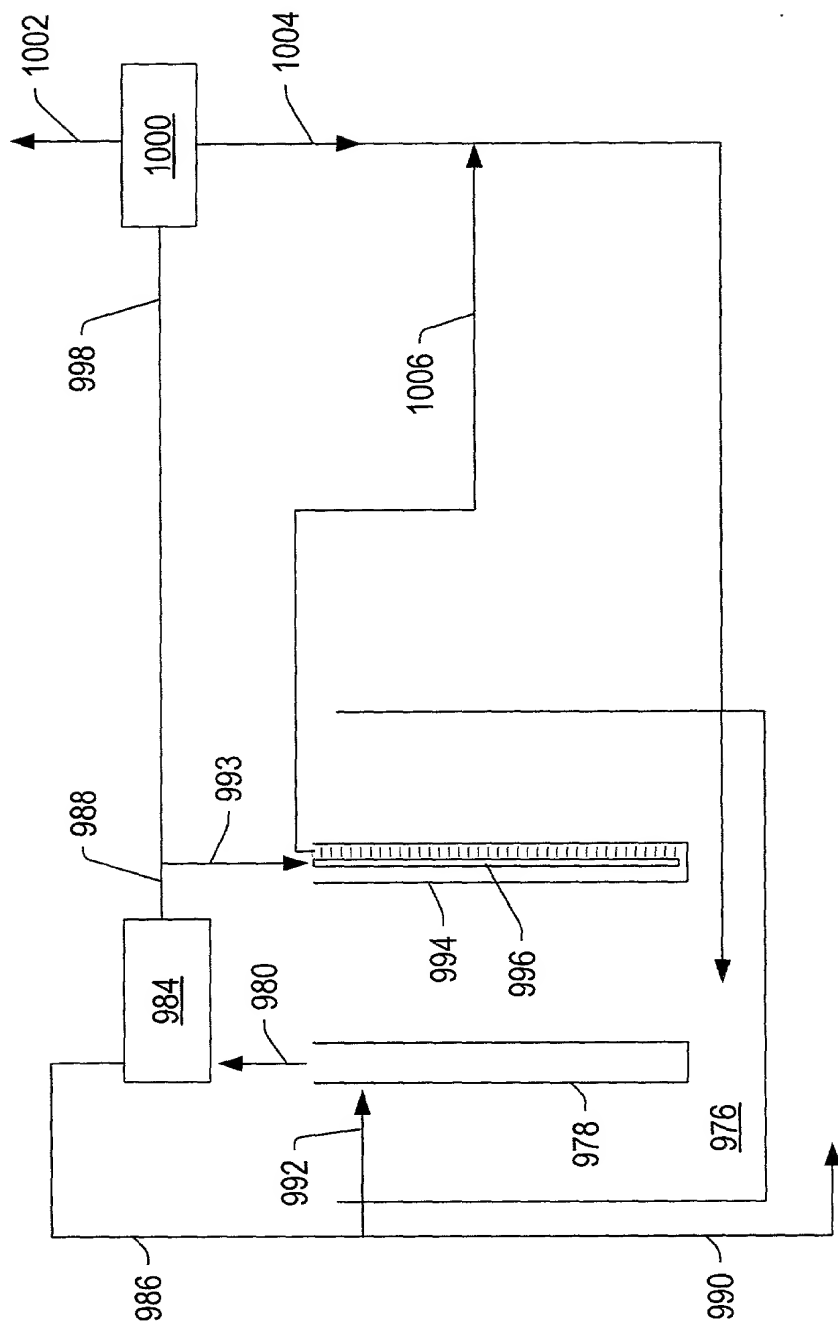


FIG. 35

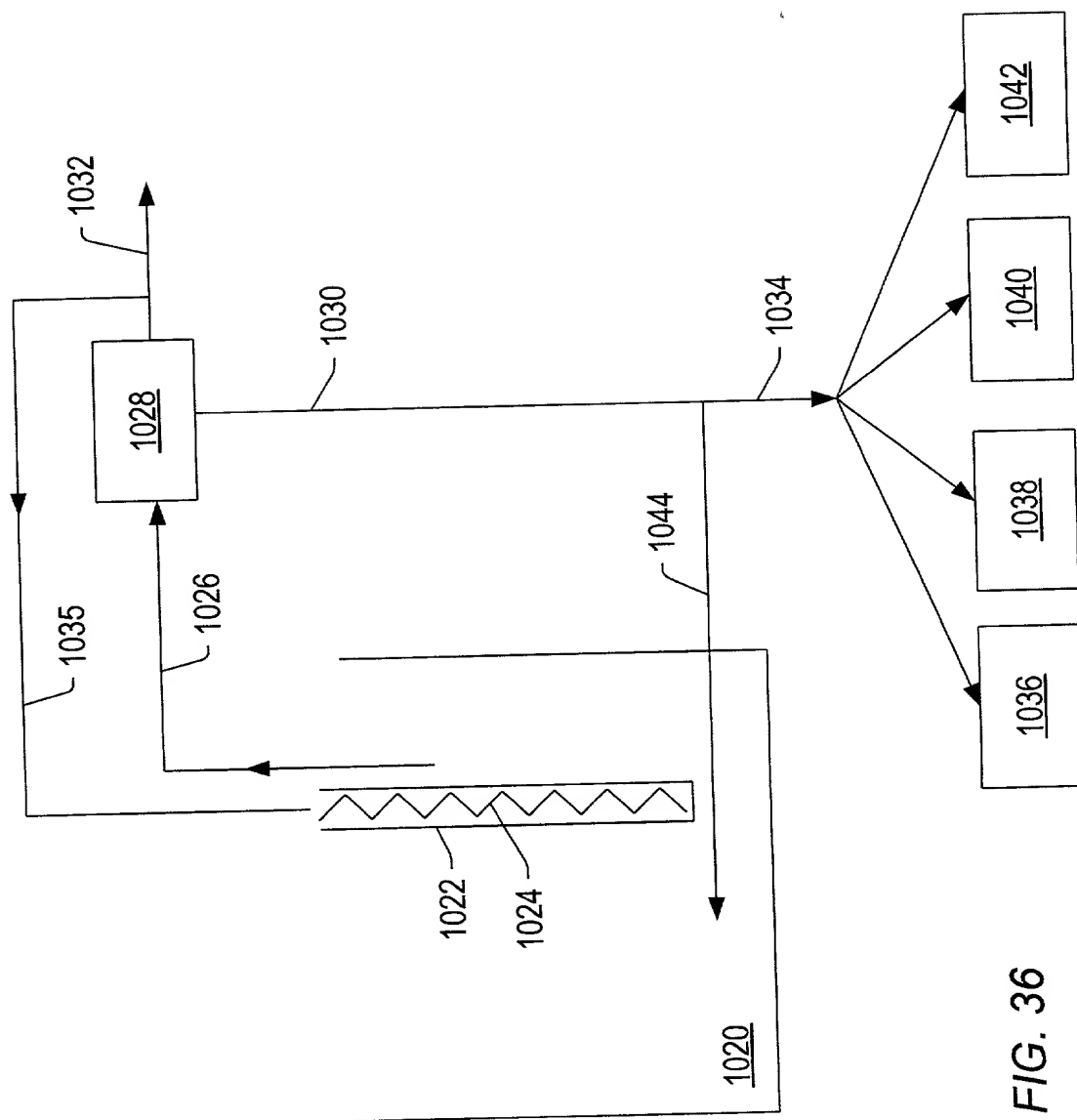


FIG. 36

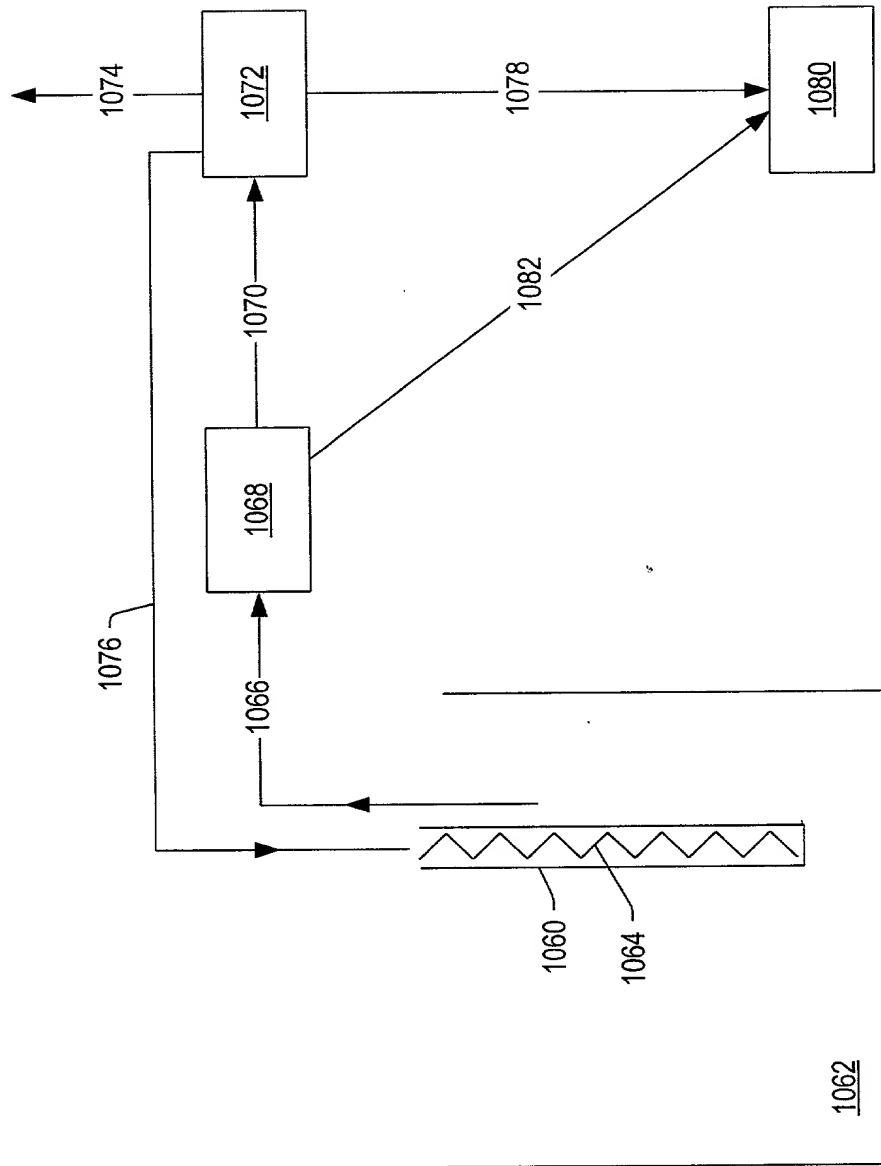


FIG. 37

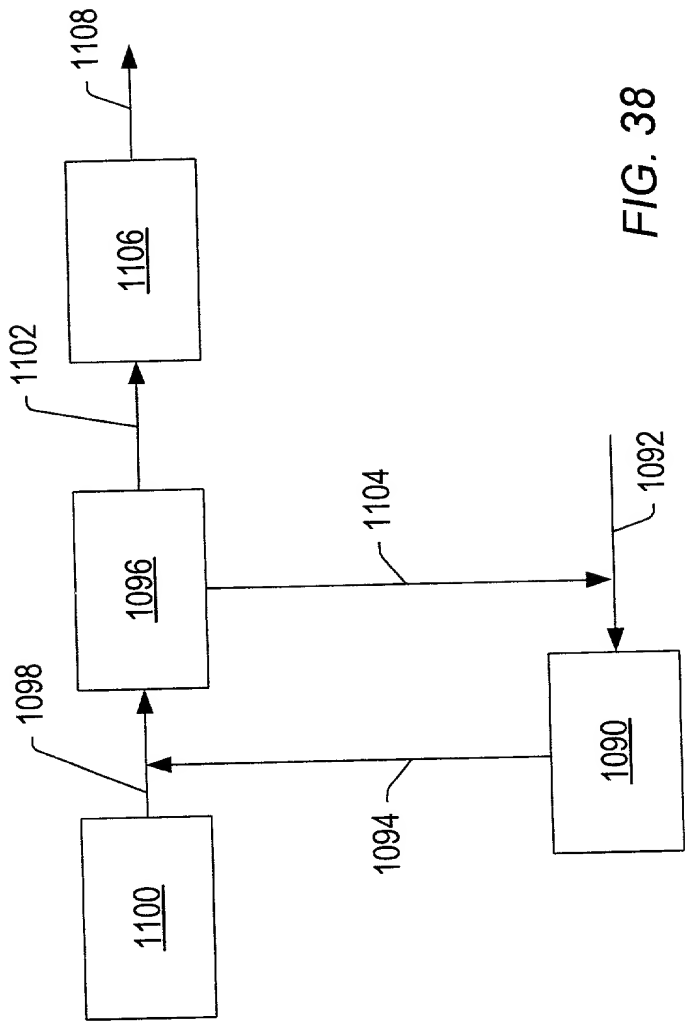


FIG. 38

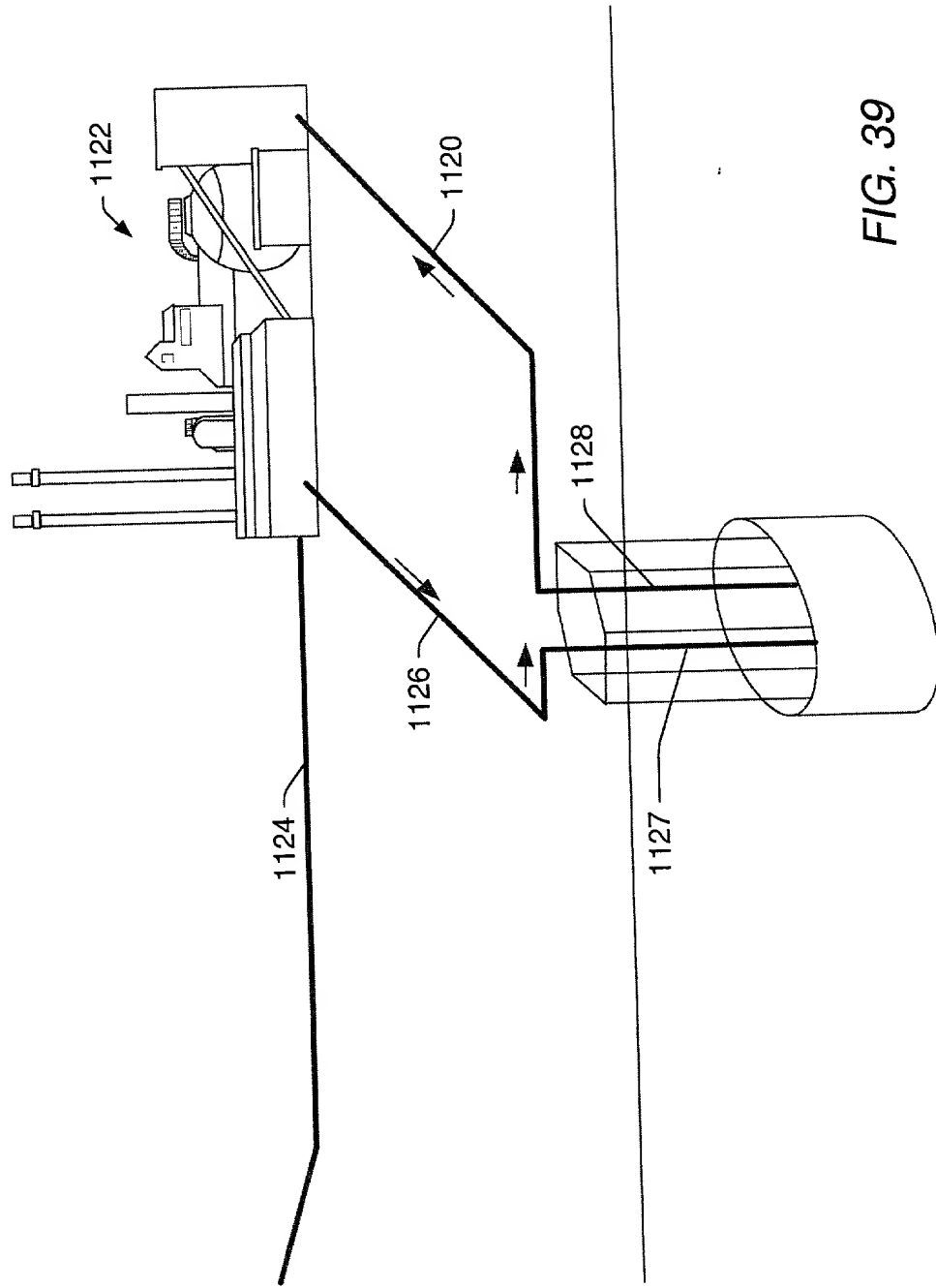
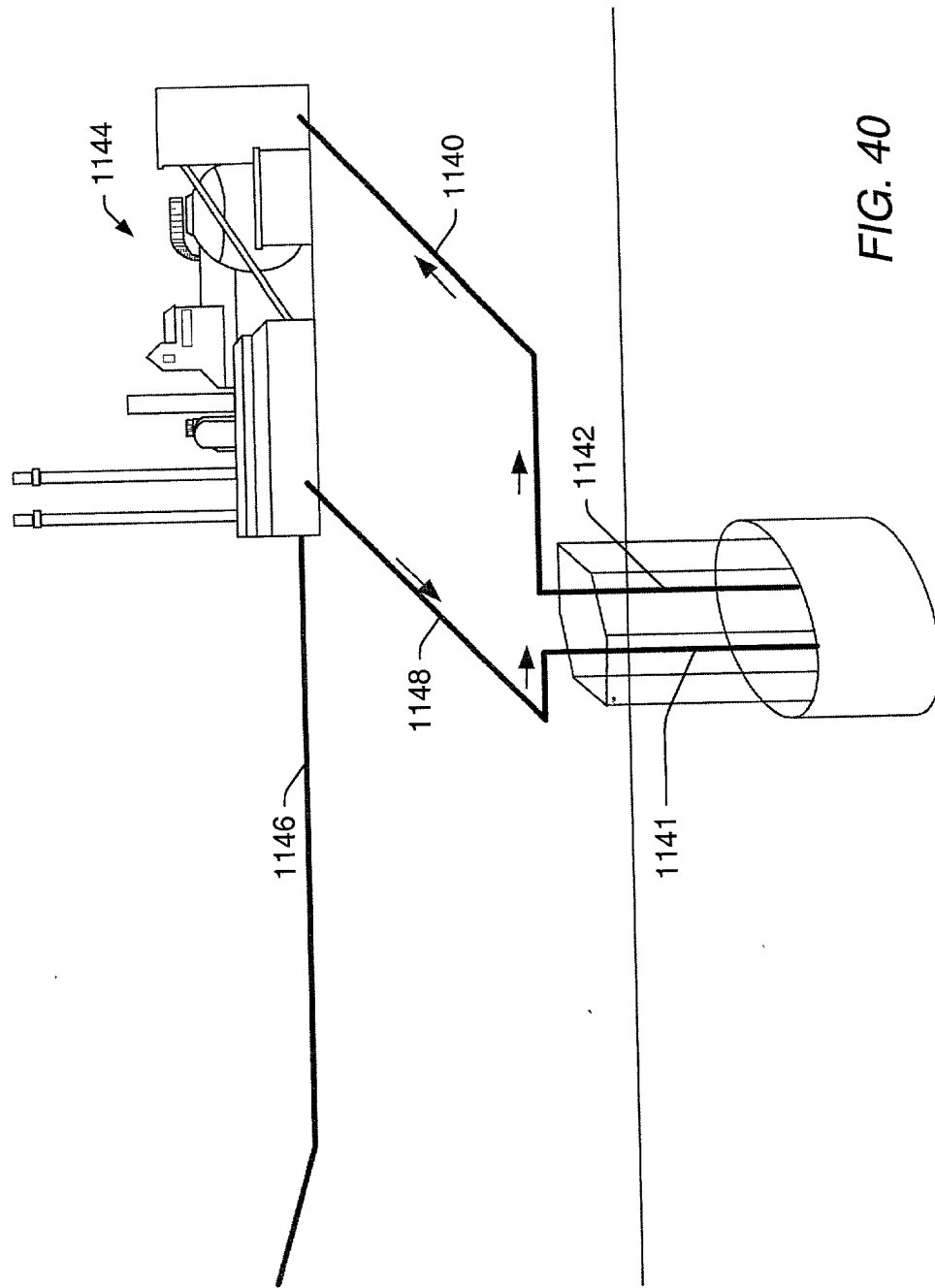


FIG. 39



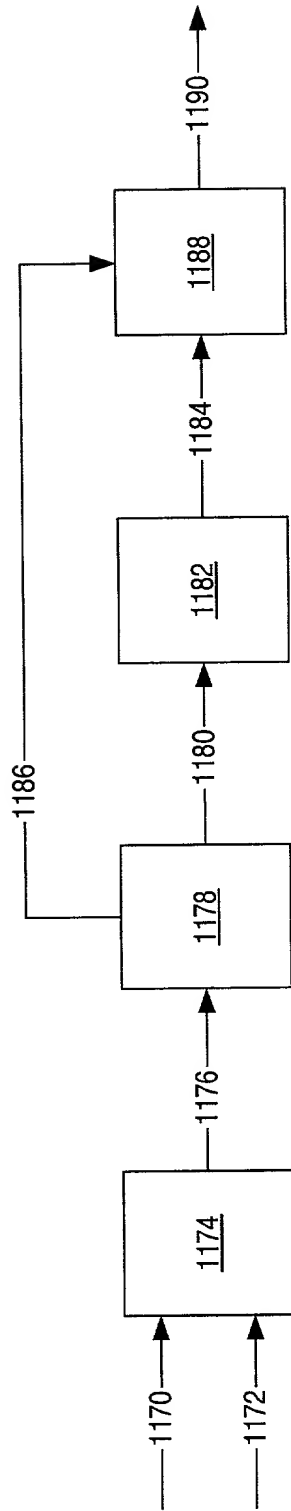


FIG. 41

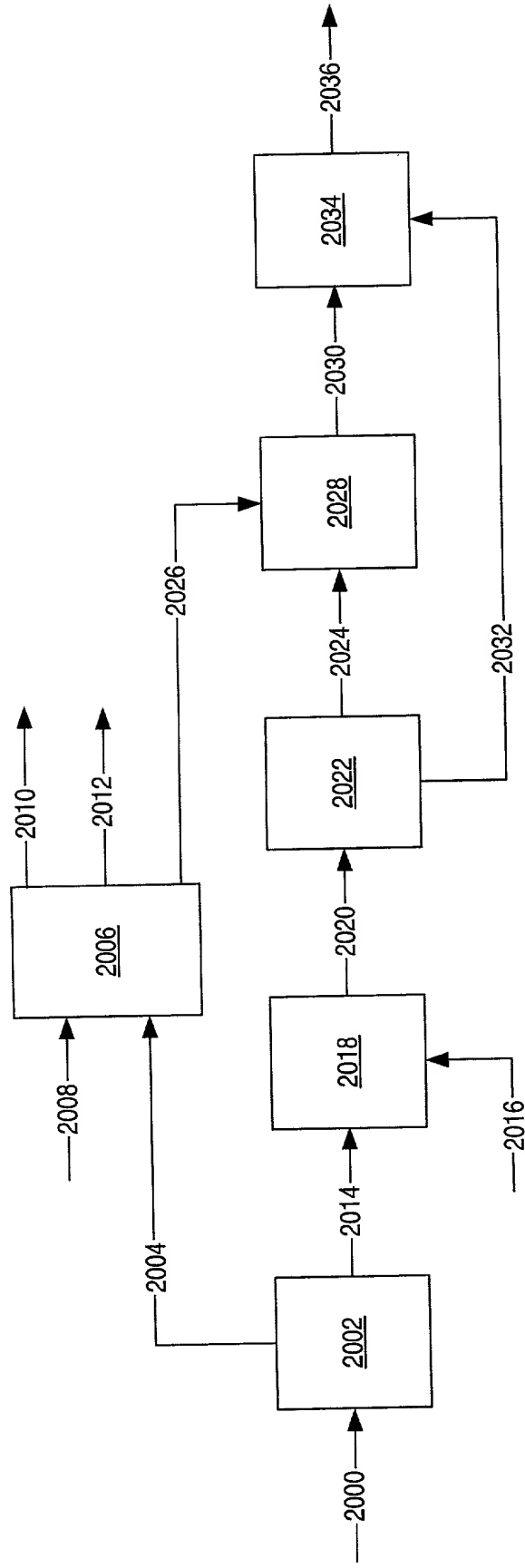


FIG. 42

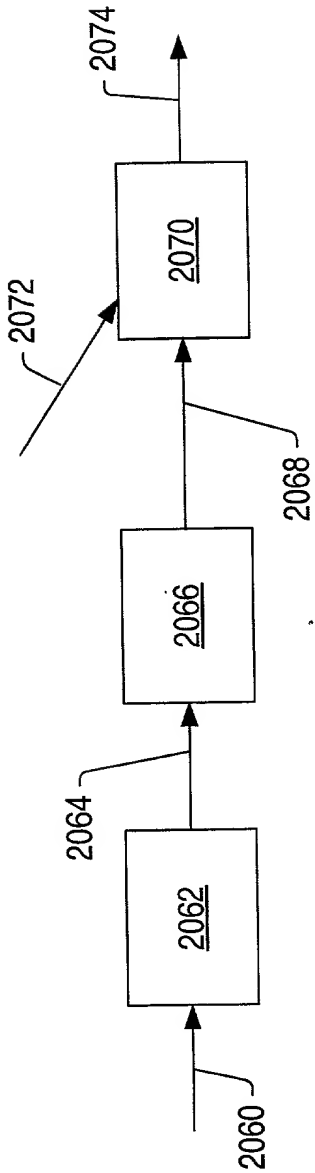


FIG. 43

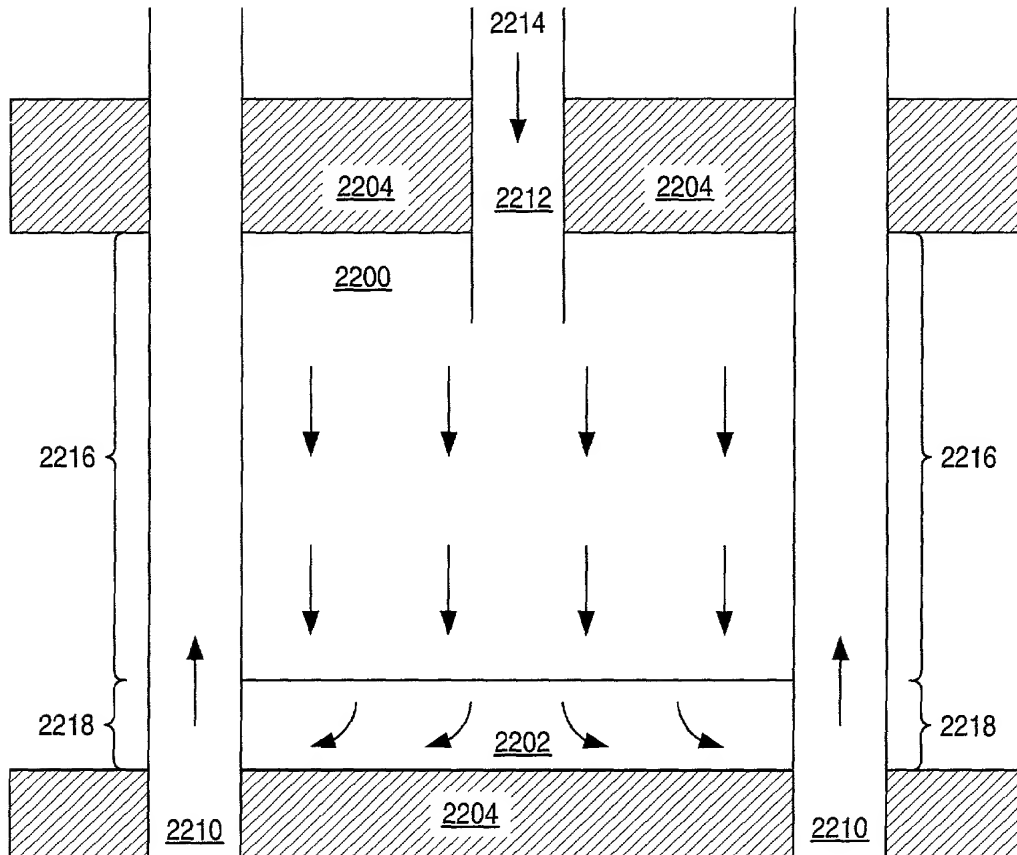


FIG. 44

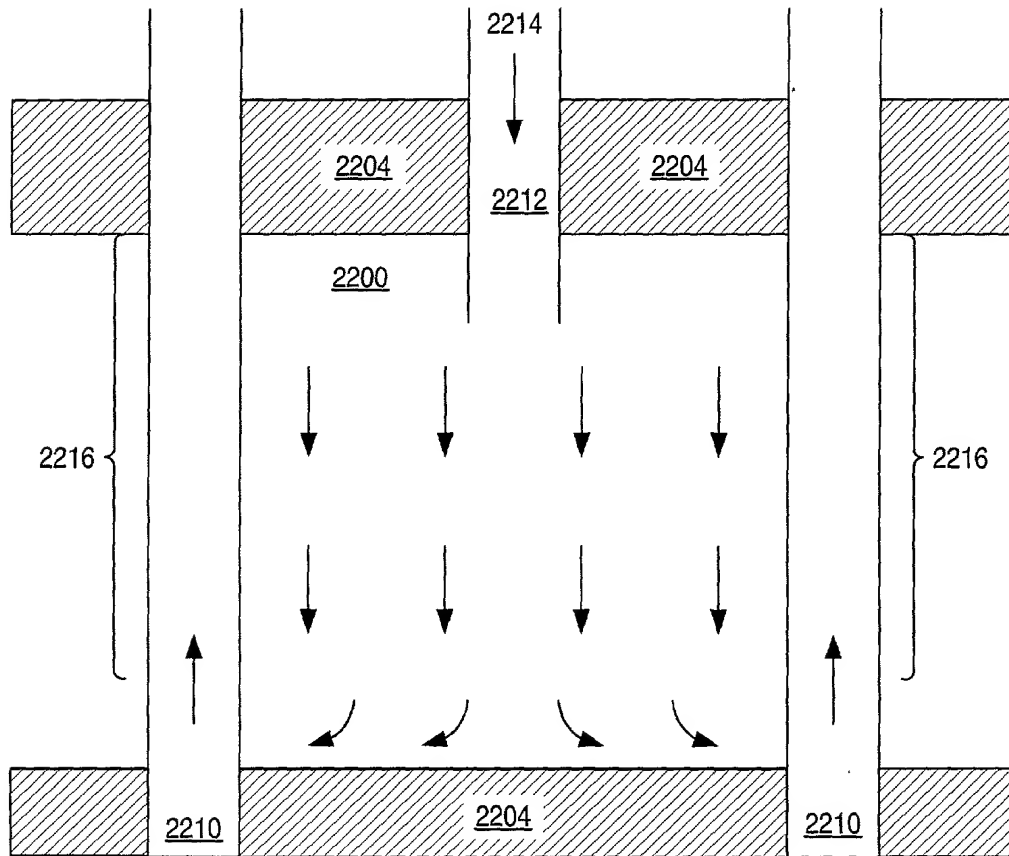


FIG. 45

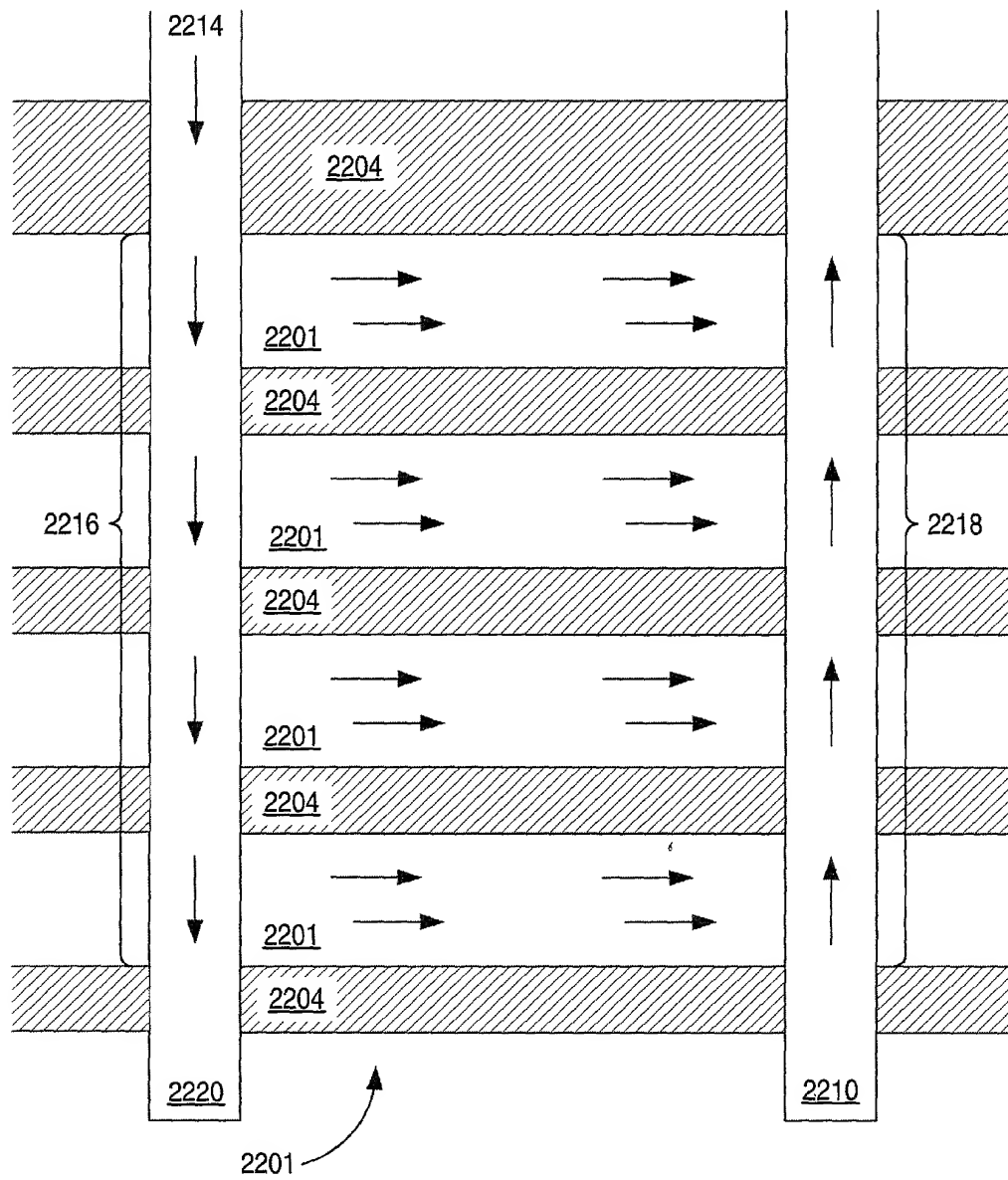


FIG. 46

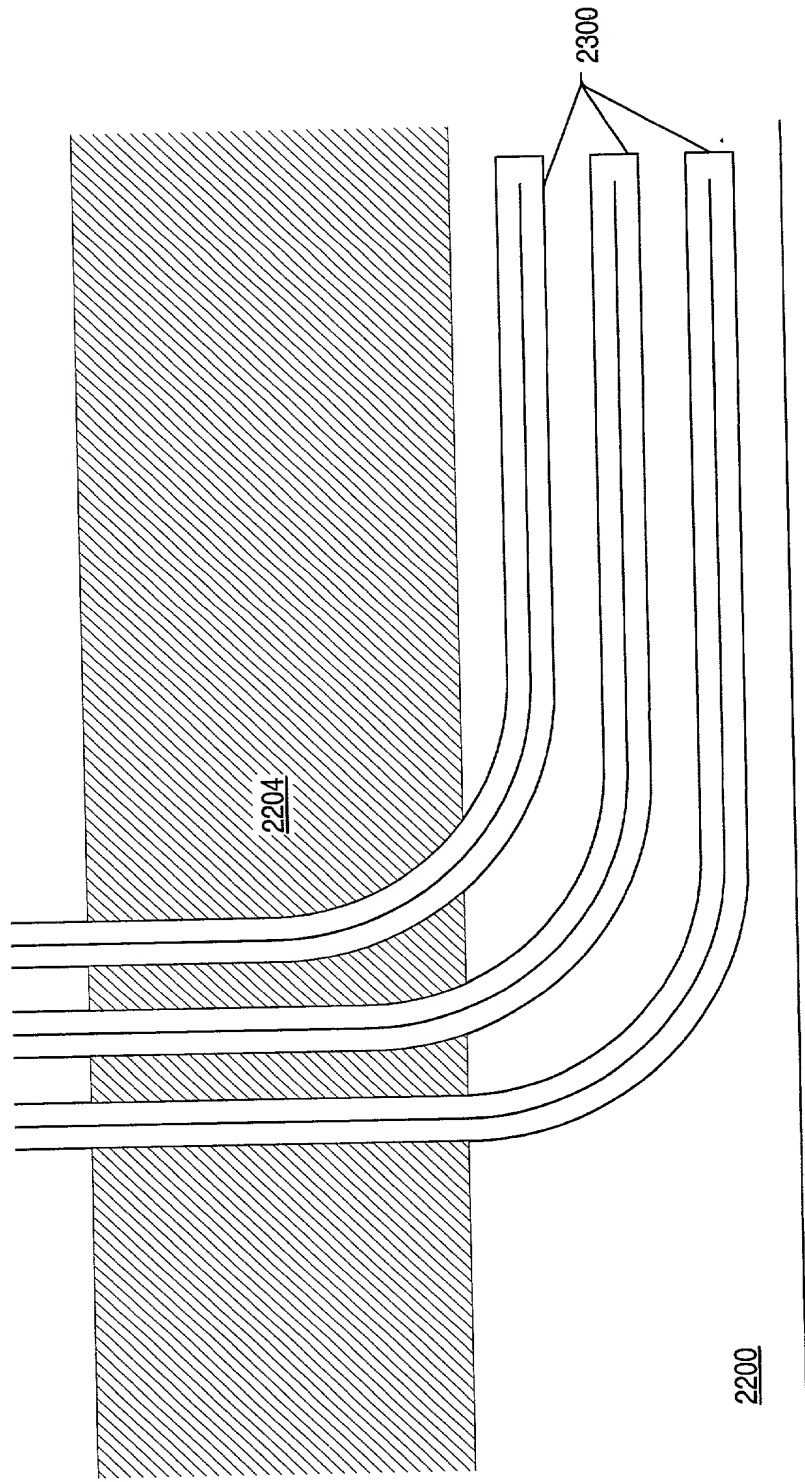


FIG. 47

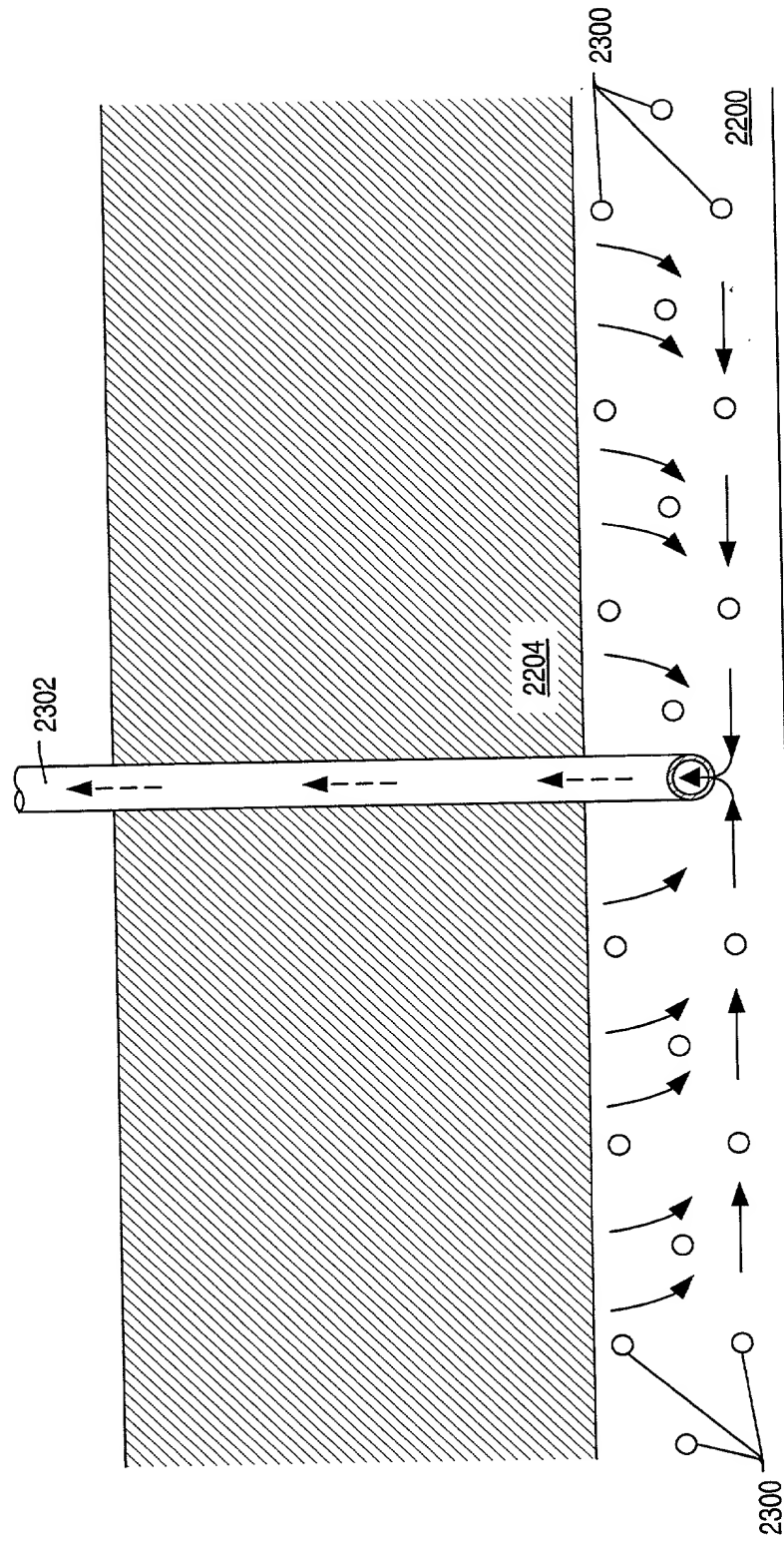


FIG. 48

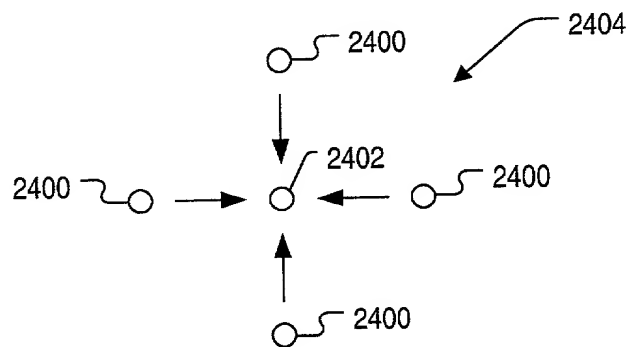


FIG. 49

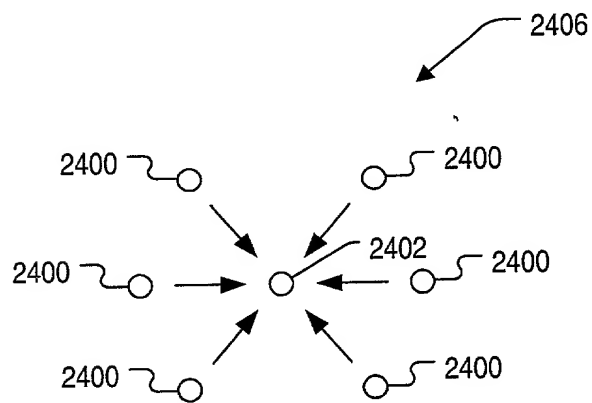


FIG. 50

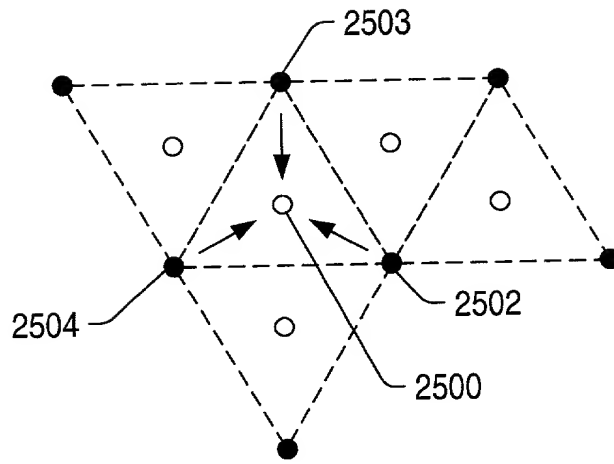


FIG. 51

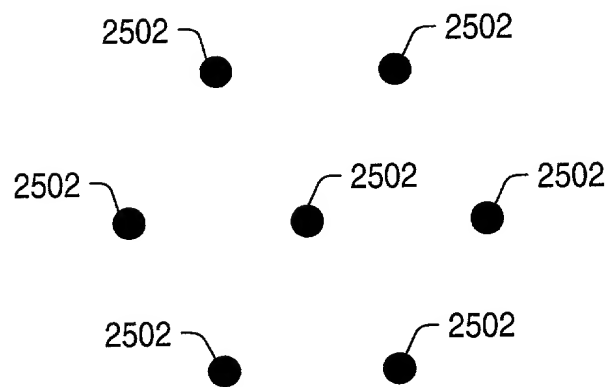


FIG. 52

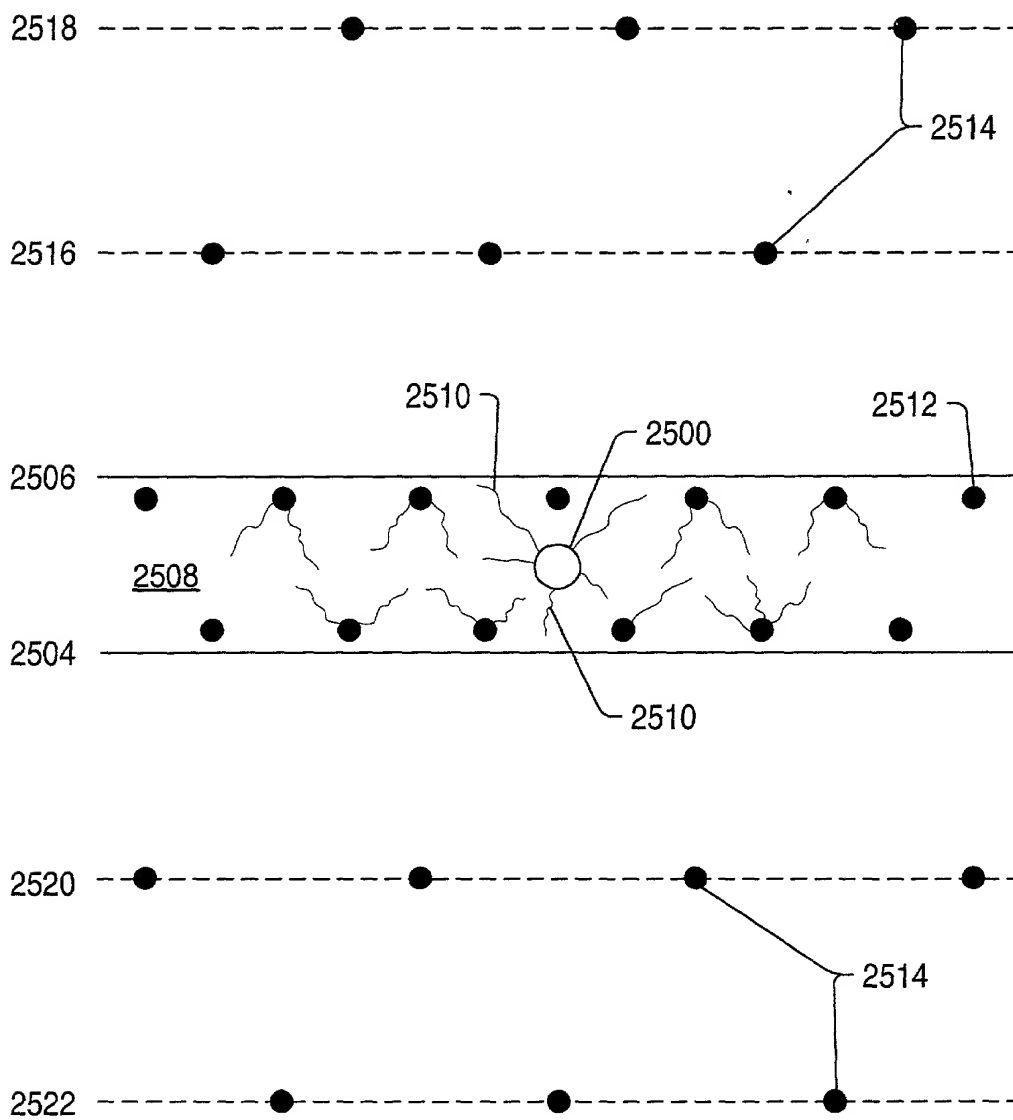


FIG. 53

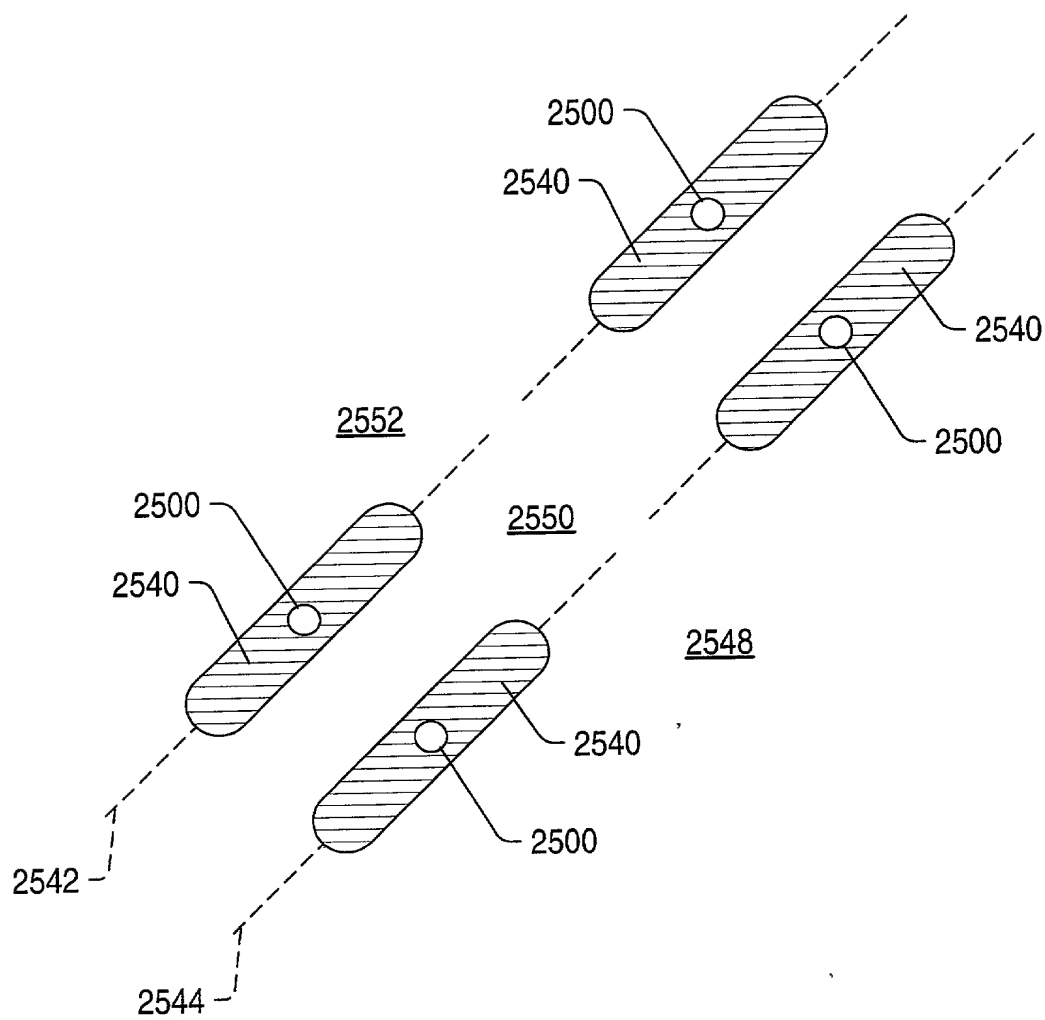


FIG. 54

FIG. 55

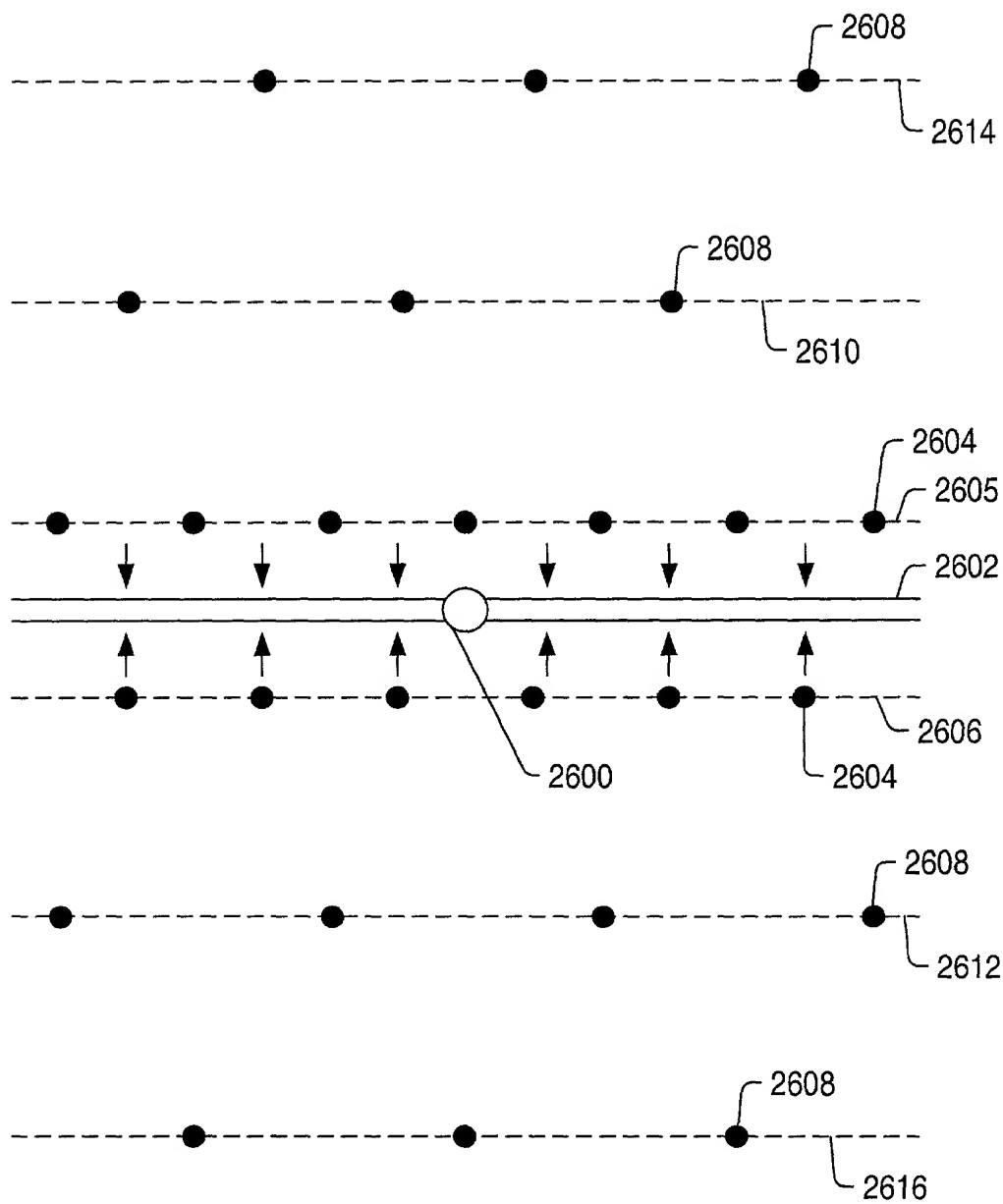


FIG. 55

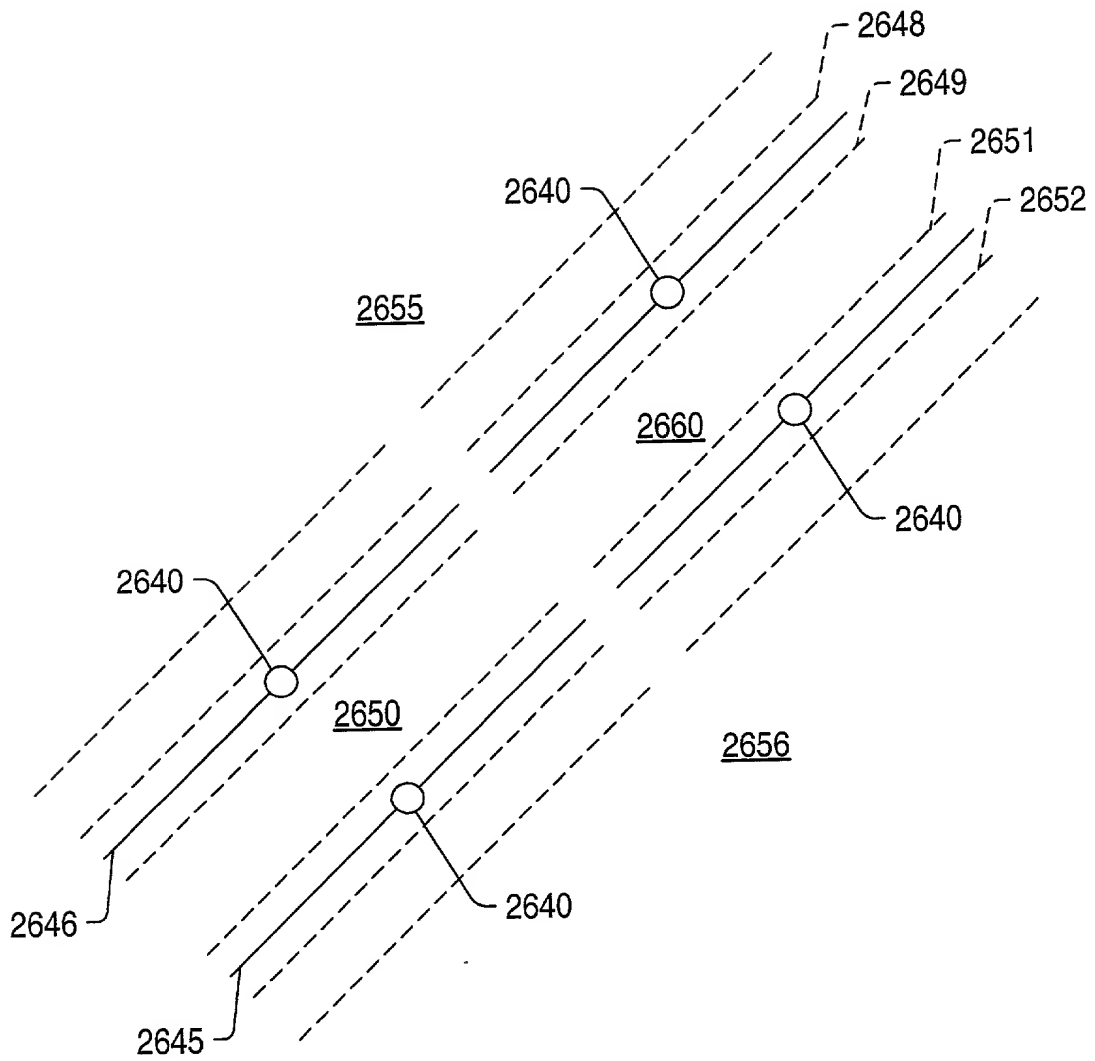


FIG. 56

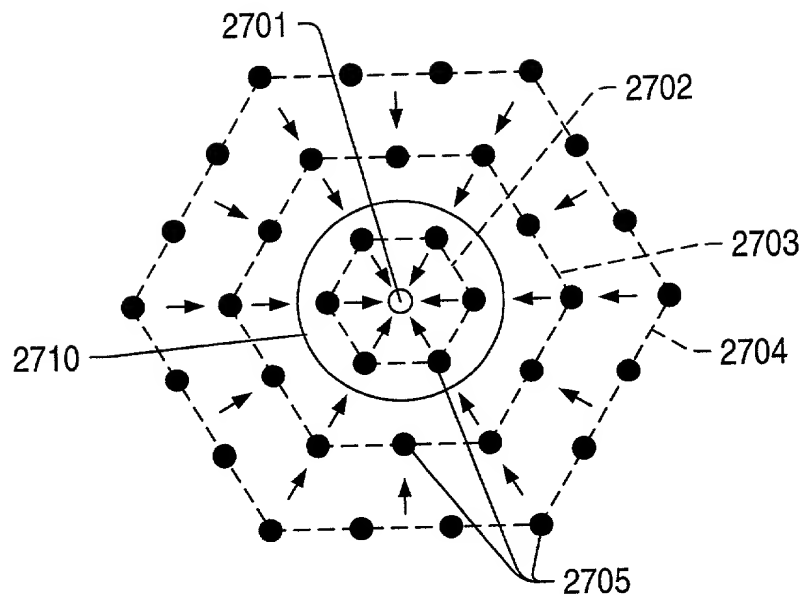


FIG. 57

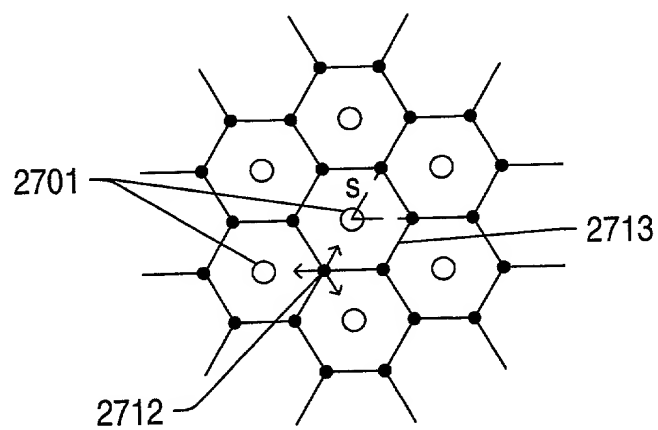


FIG. 58

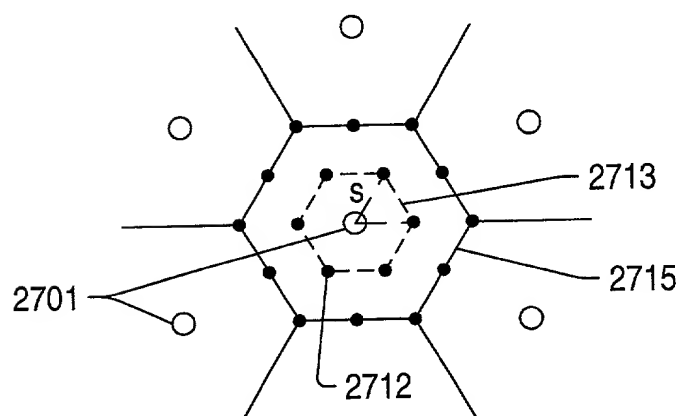


FIG. 59

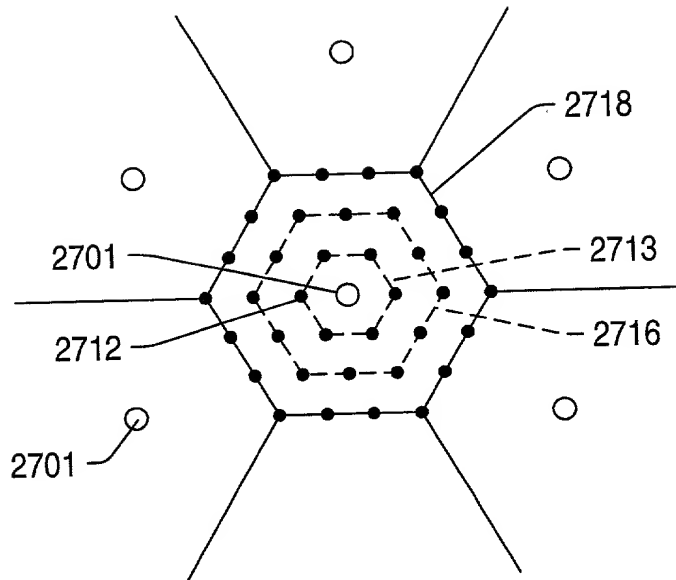


FIG. 60

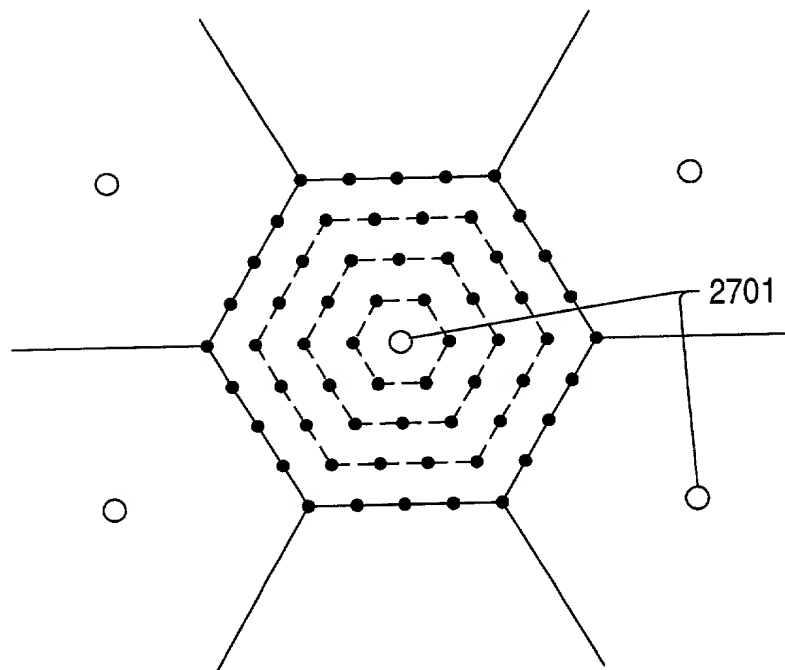


FIG. 61

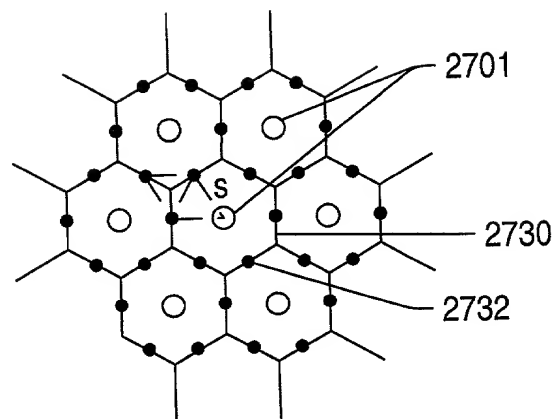


FIG. 62

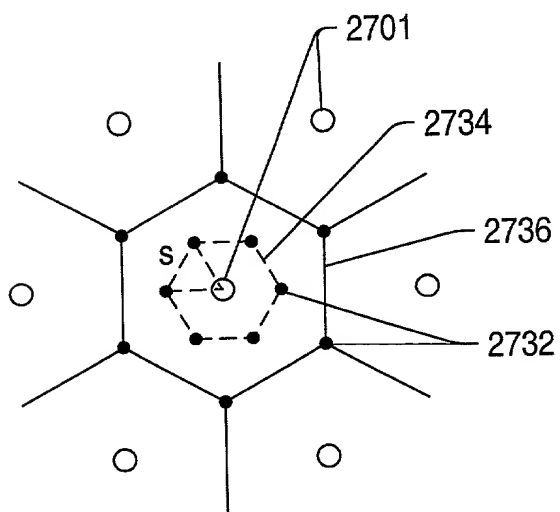


FIG. 63

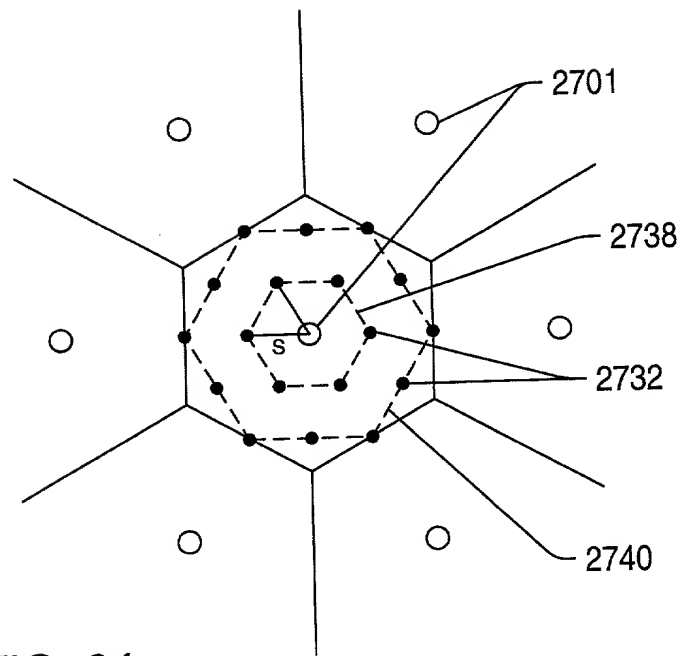


FIG. 64

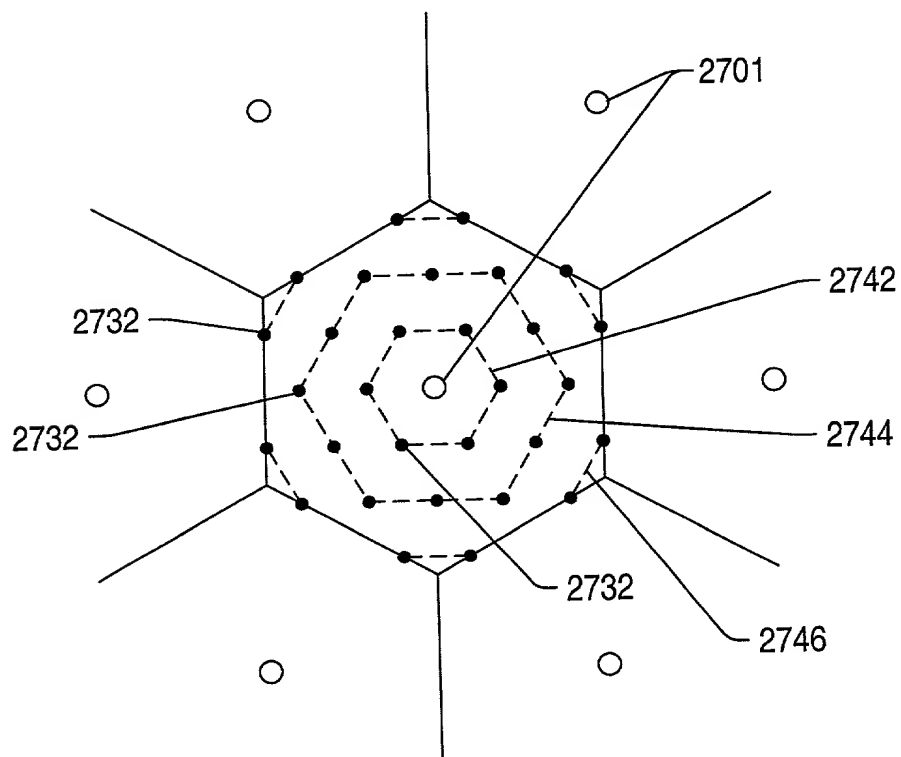


FIG. 65

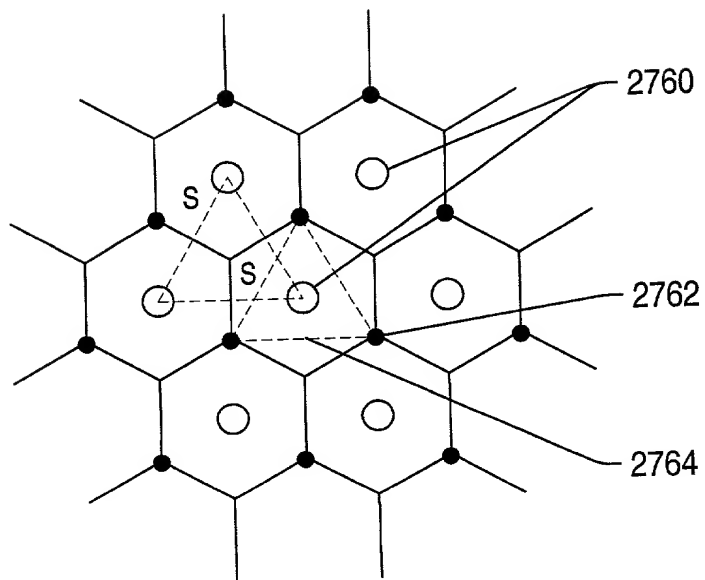


FIG. 66

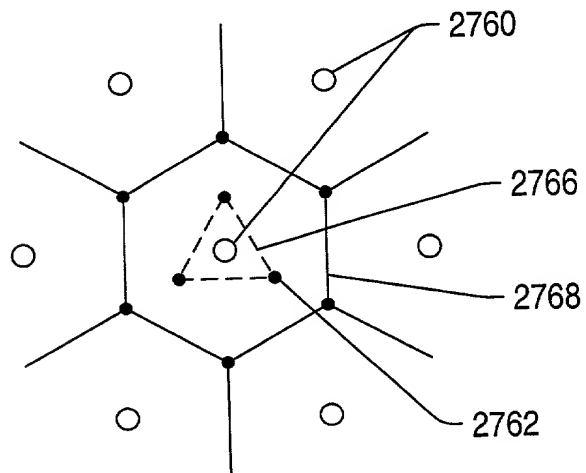


FIG. 67

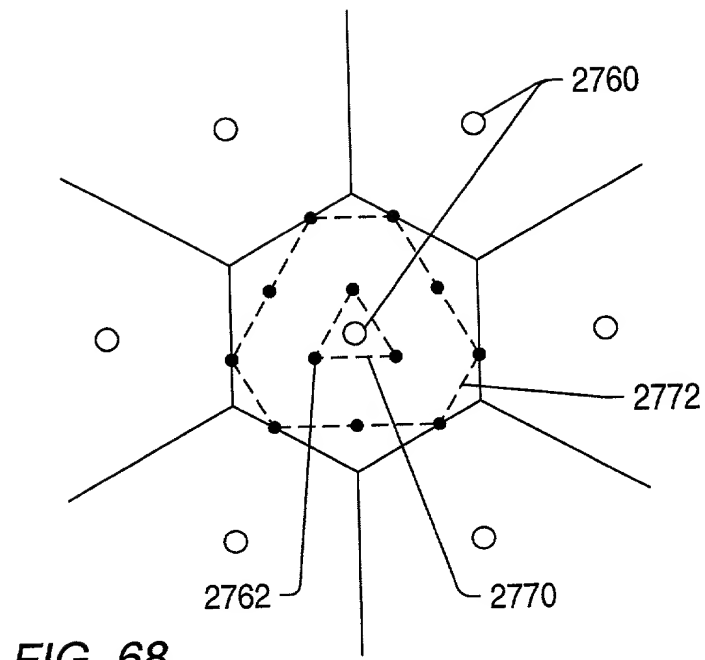


FIG. 68

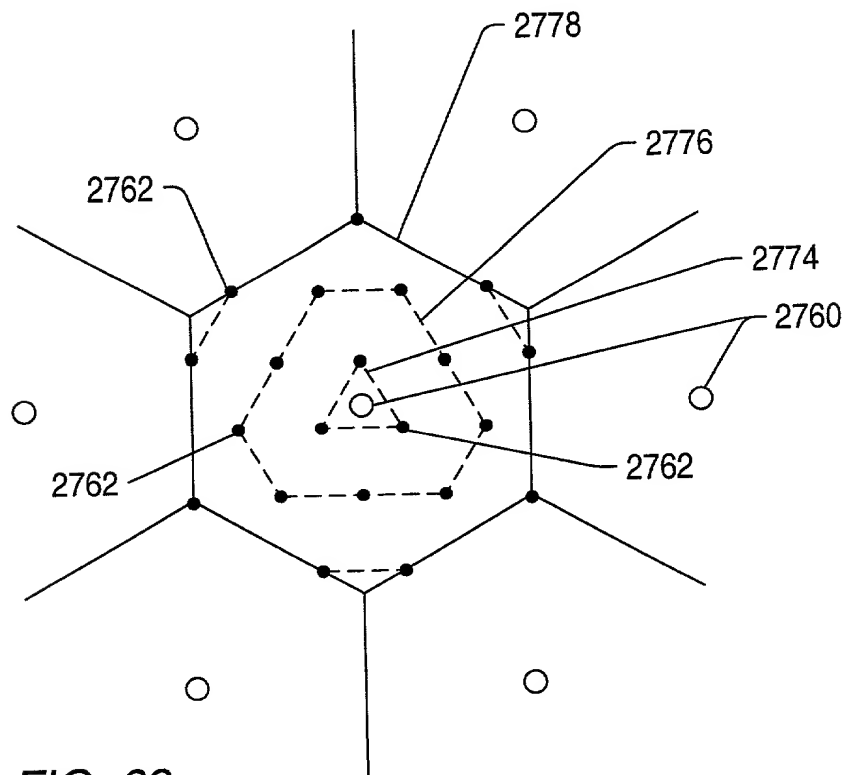


FIG. 69

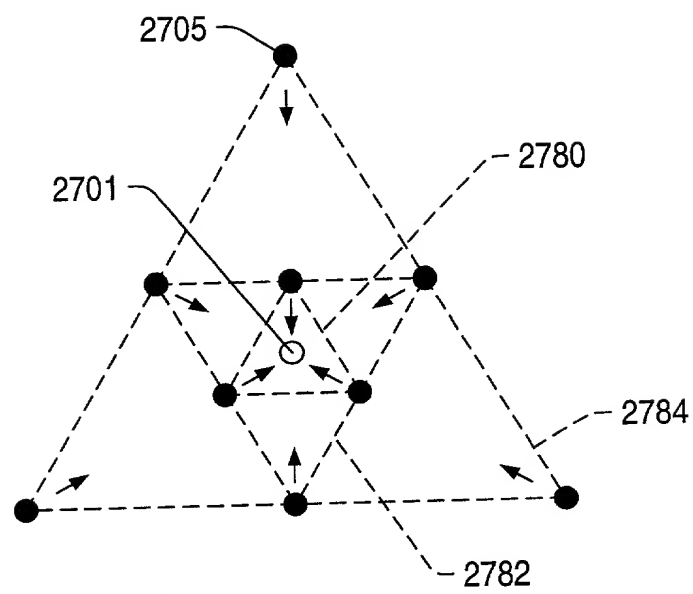


FIG. 70

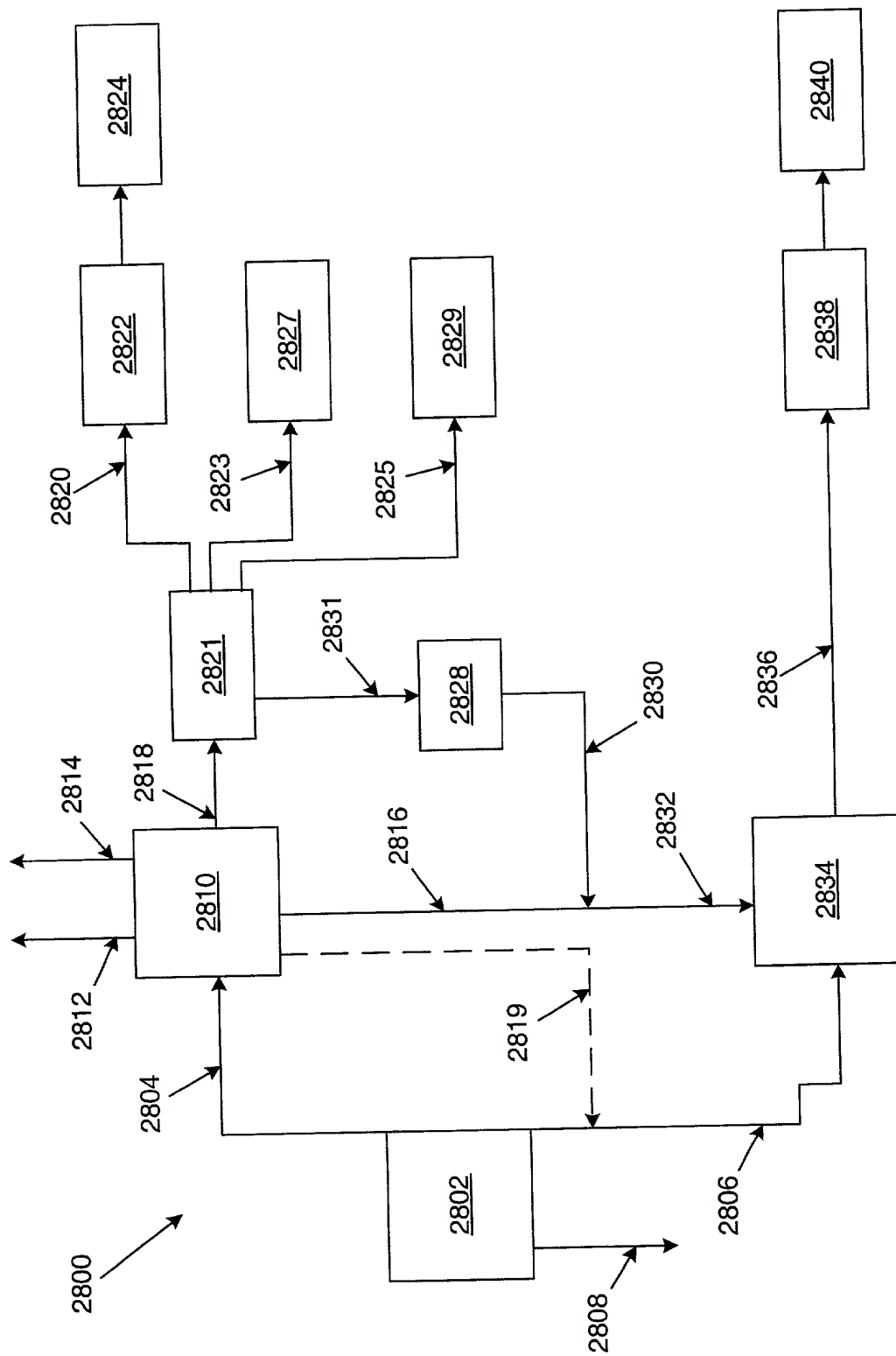


Fig. 71

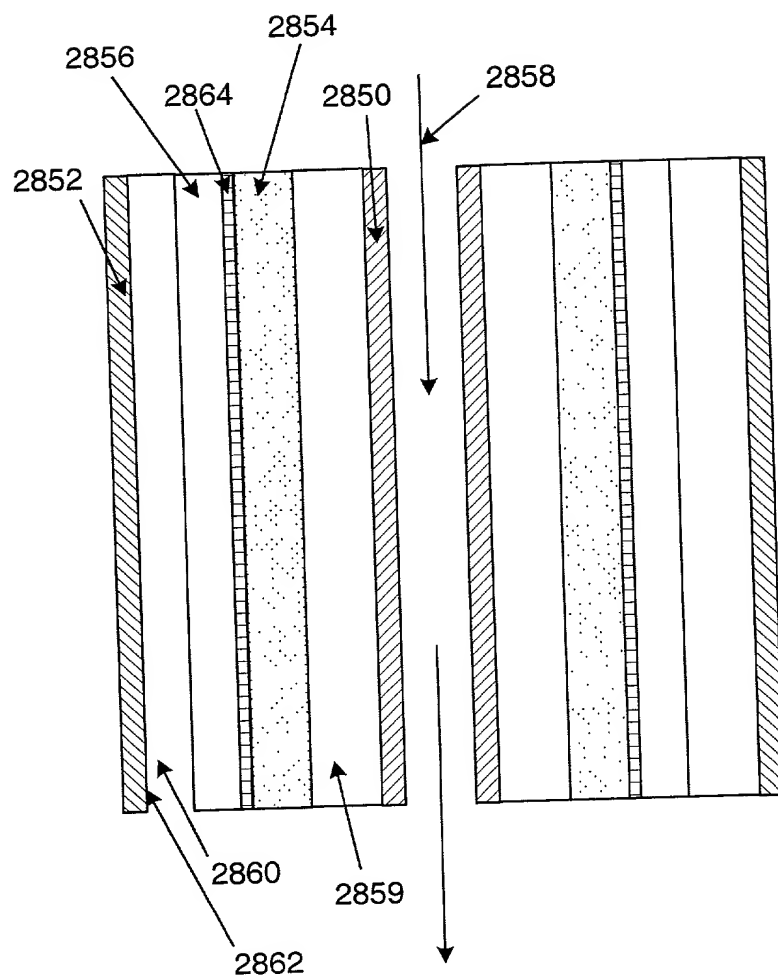


Fig. 72

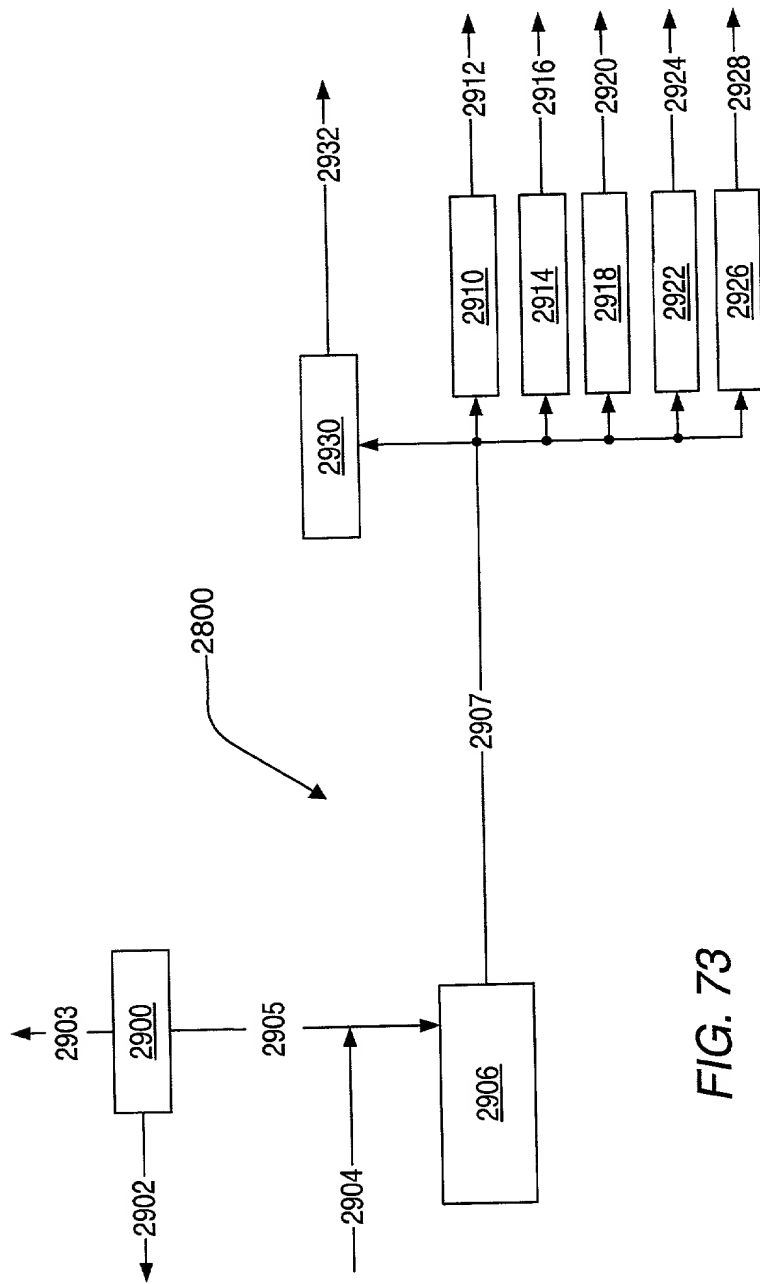


FIG. 73

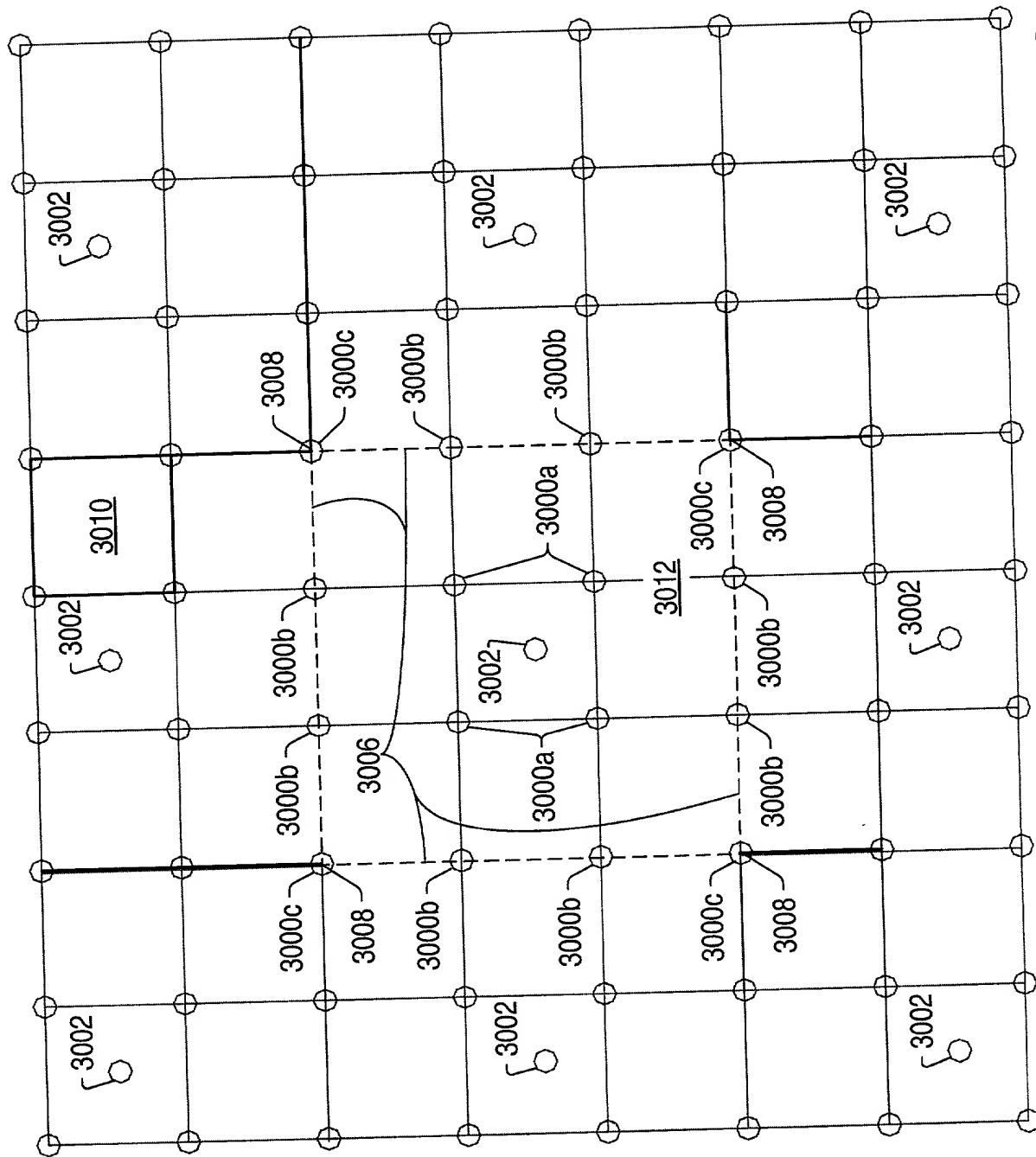


FIG. 74

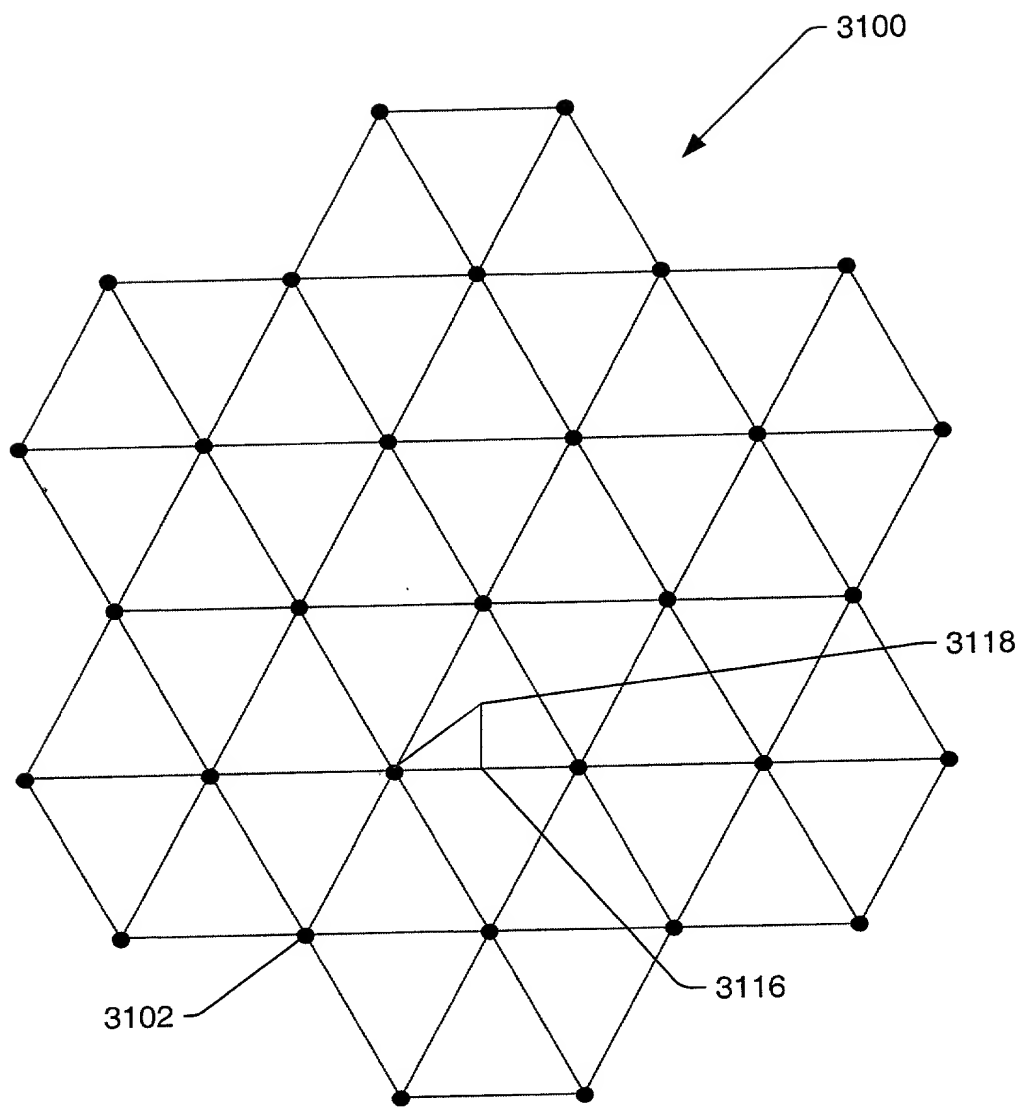


FIG. 76

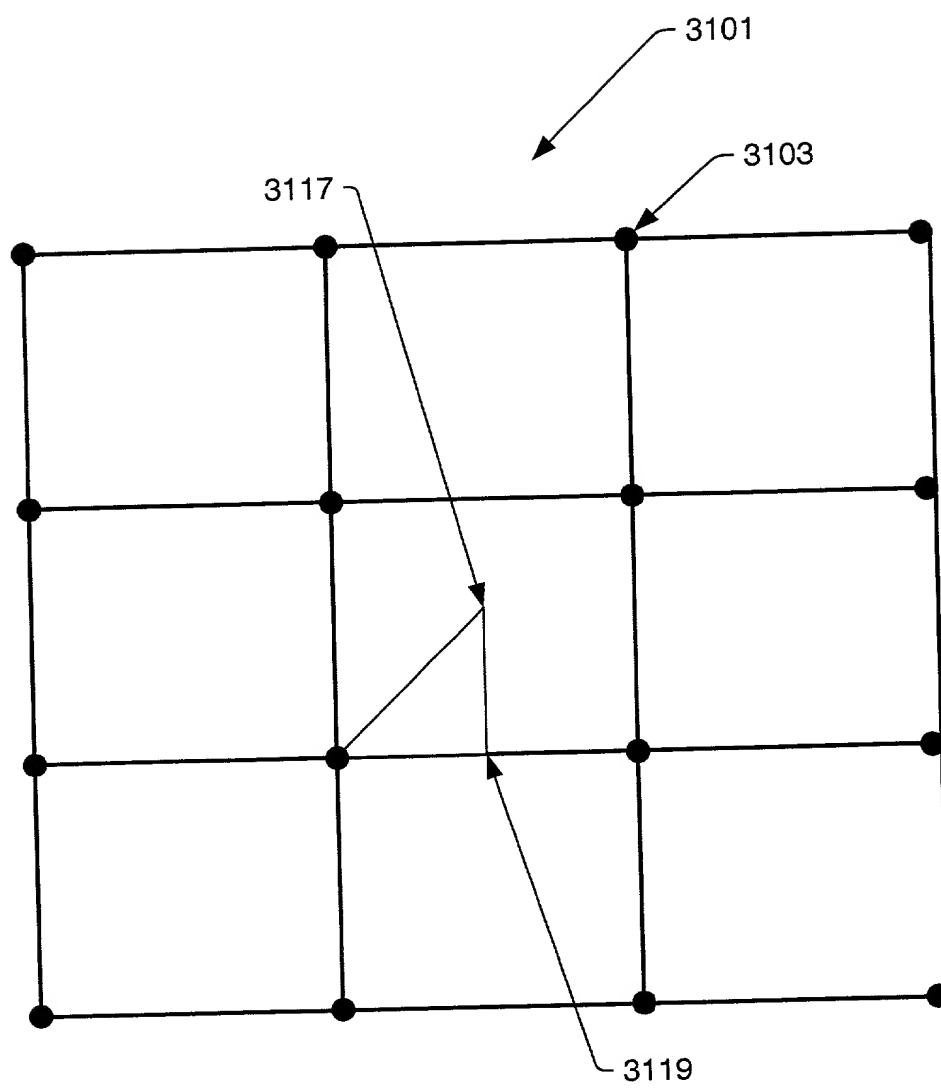


FIG. 76a

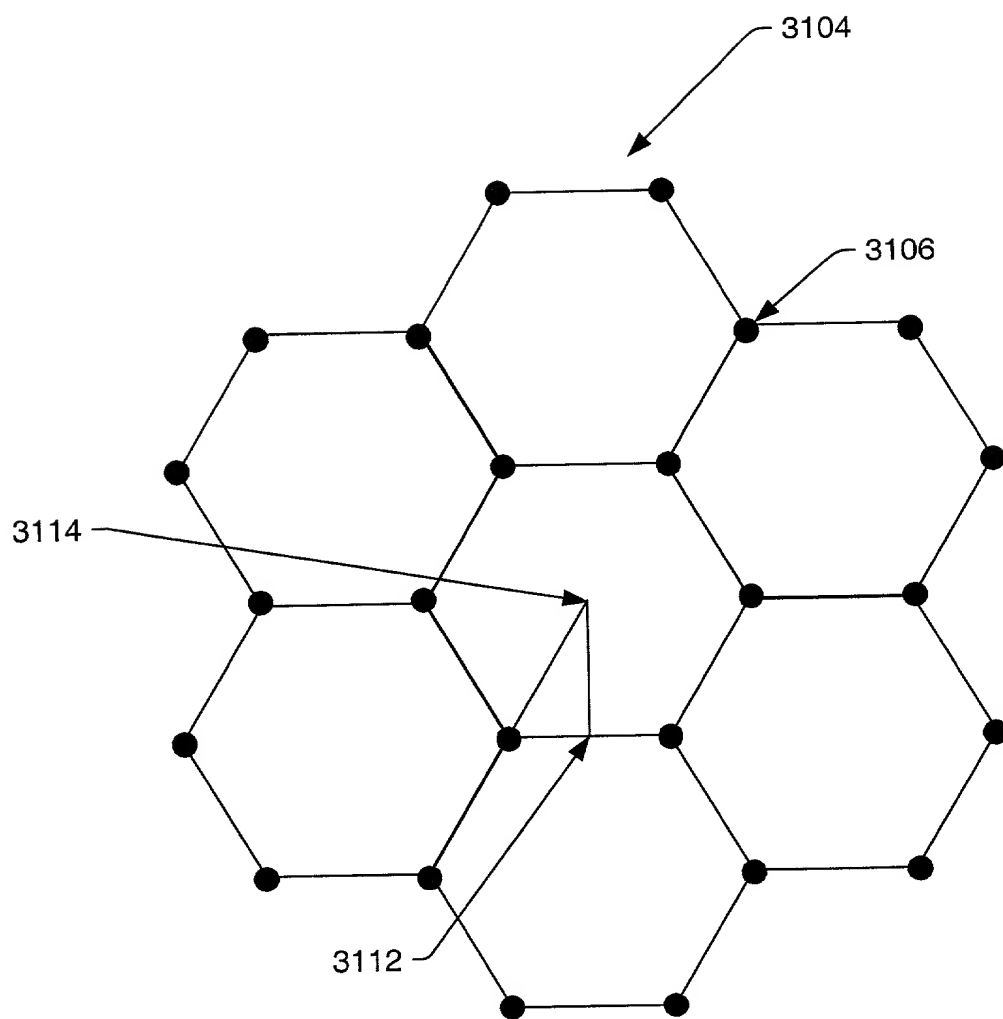


FIG. 77

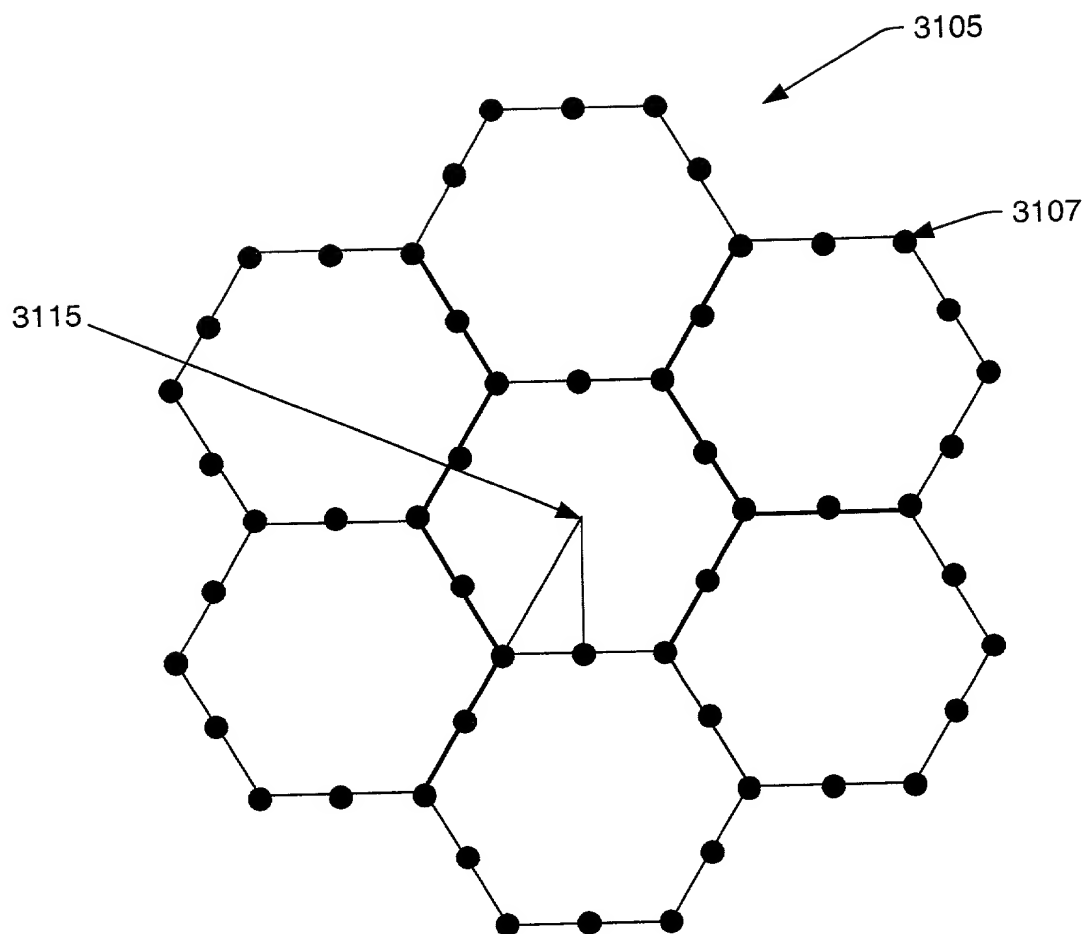


FIG. 77a

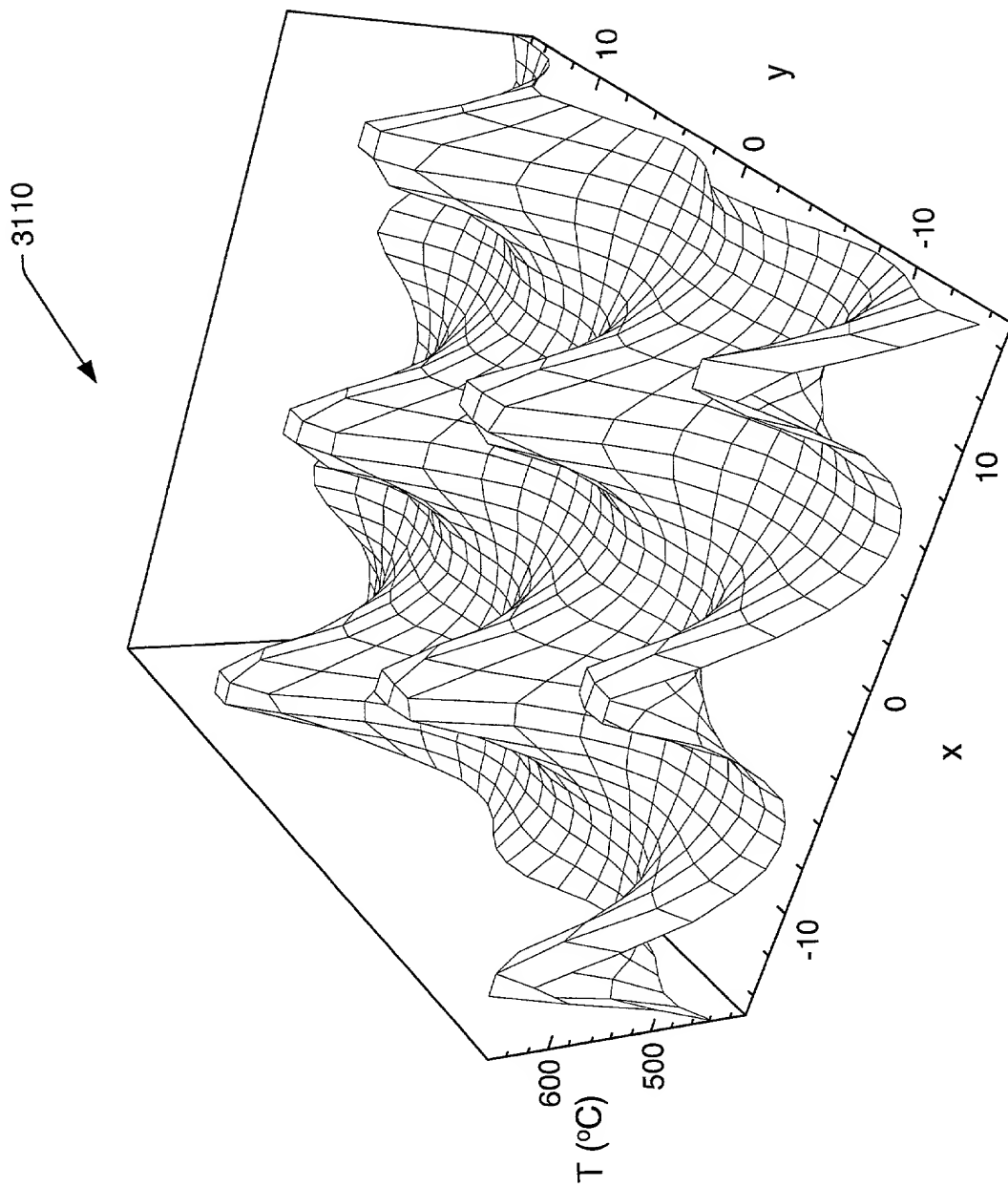


FIG. 78

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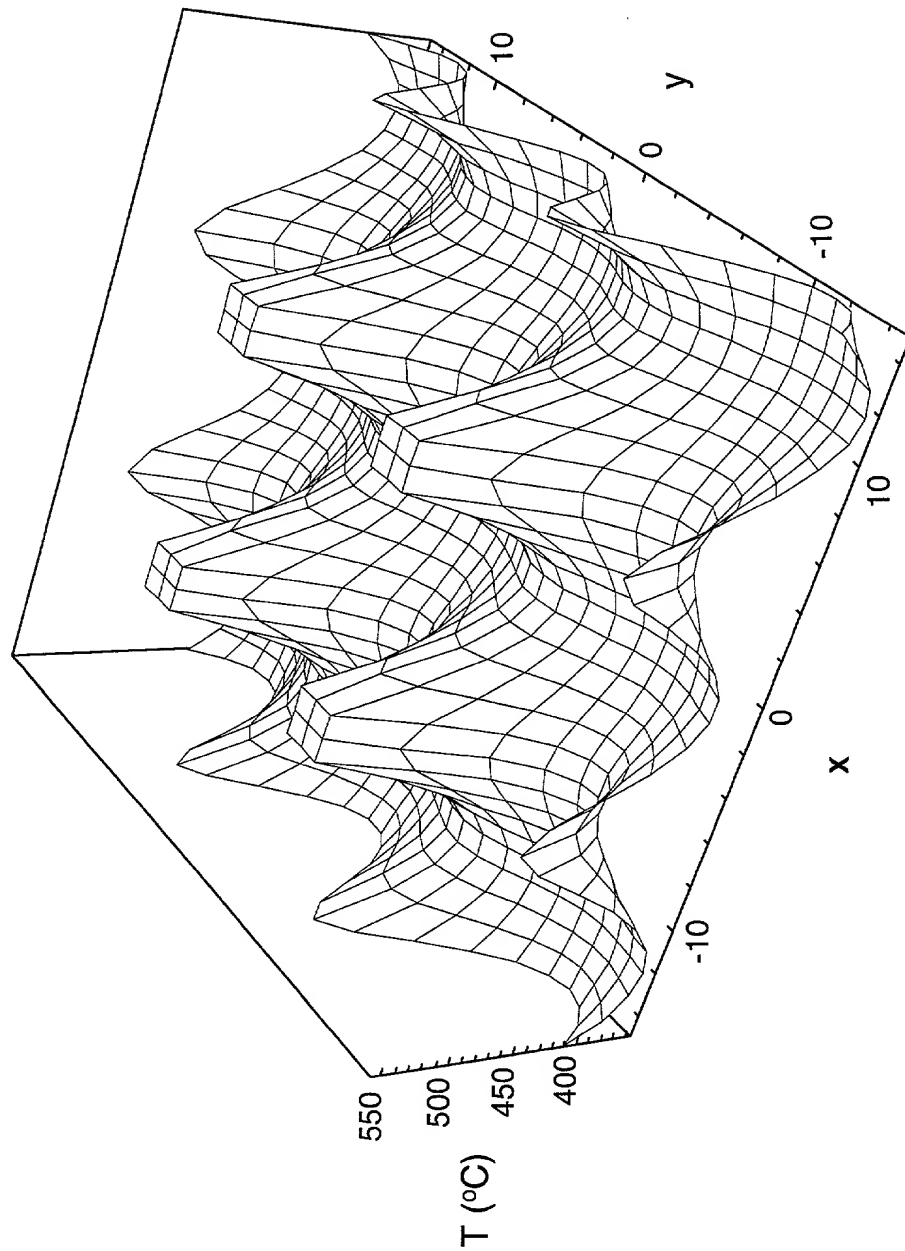


FIG. 79

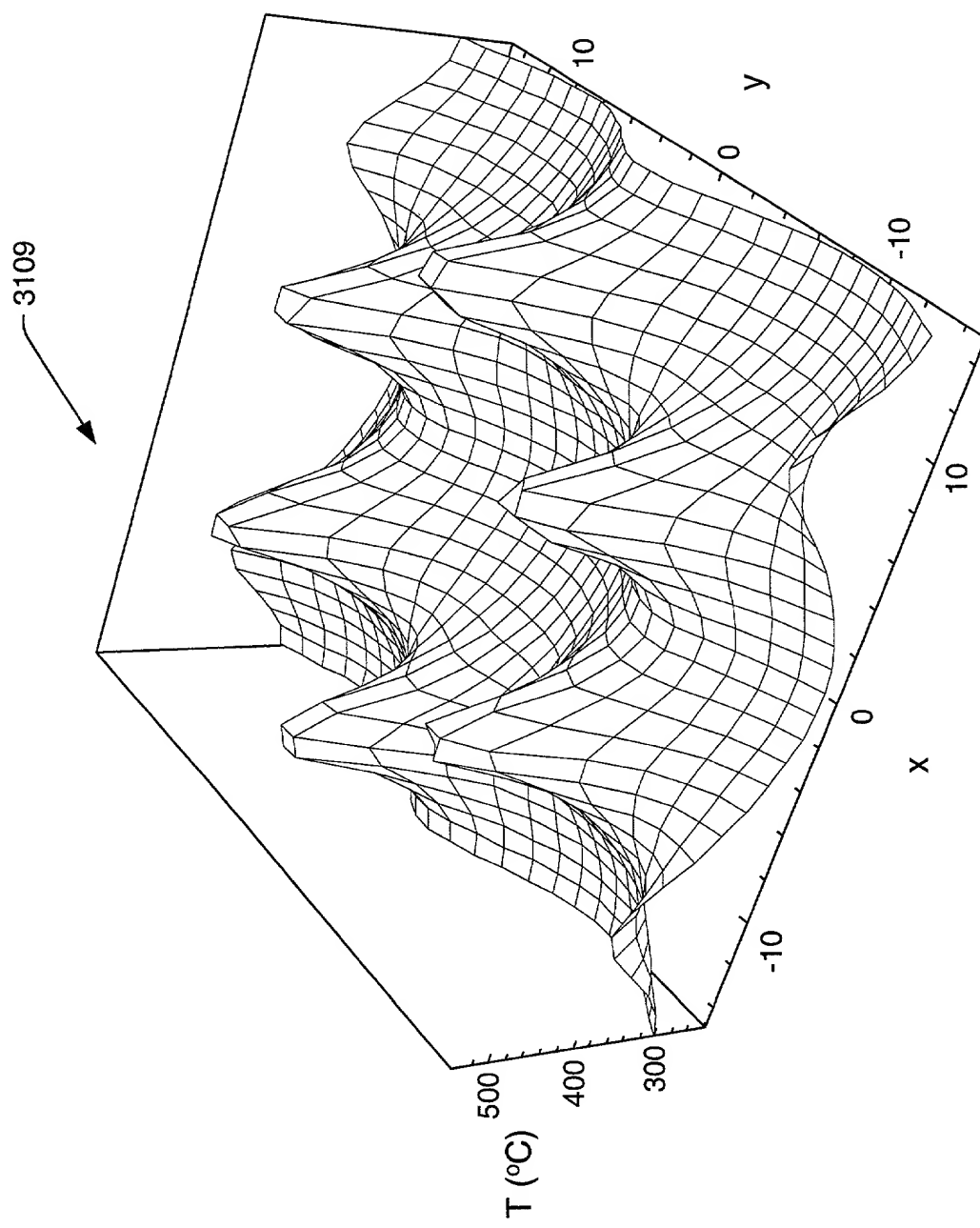


FIG. 79a

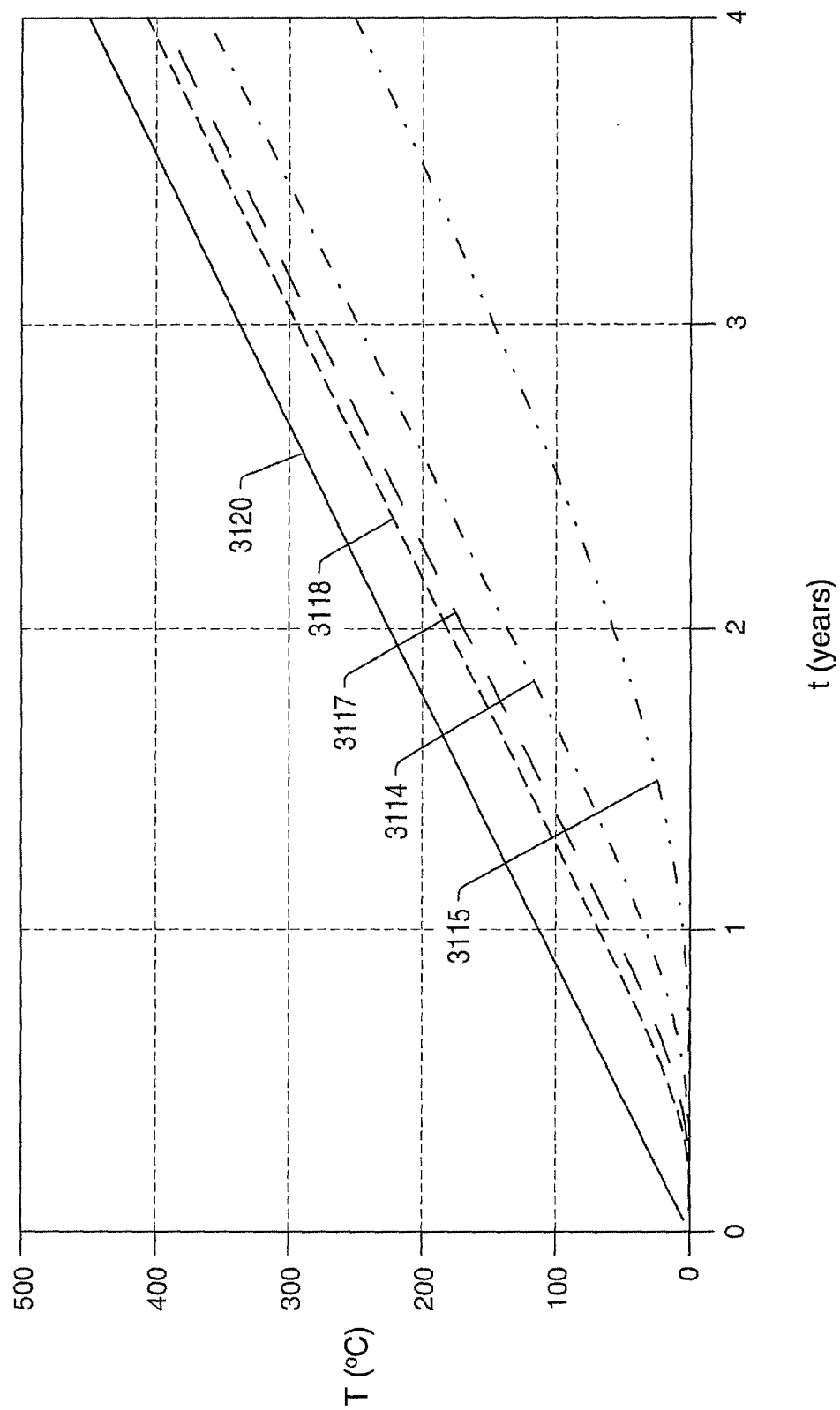


FIG. 80

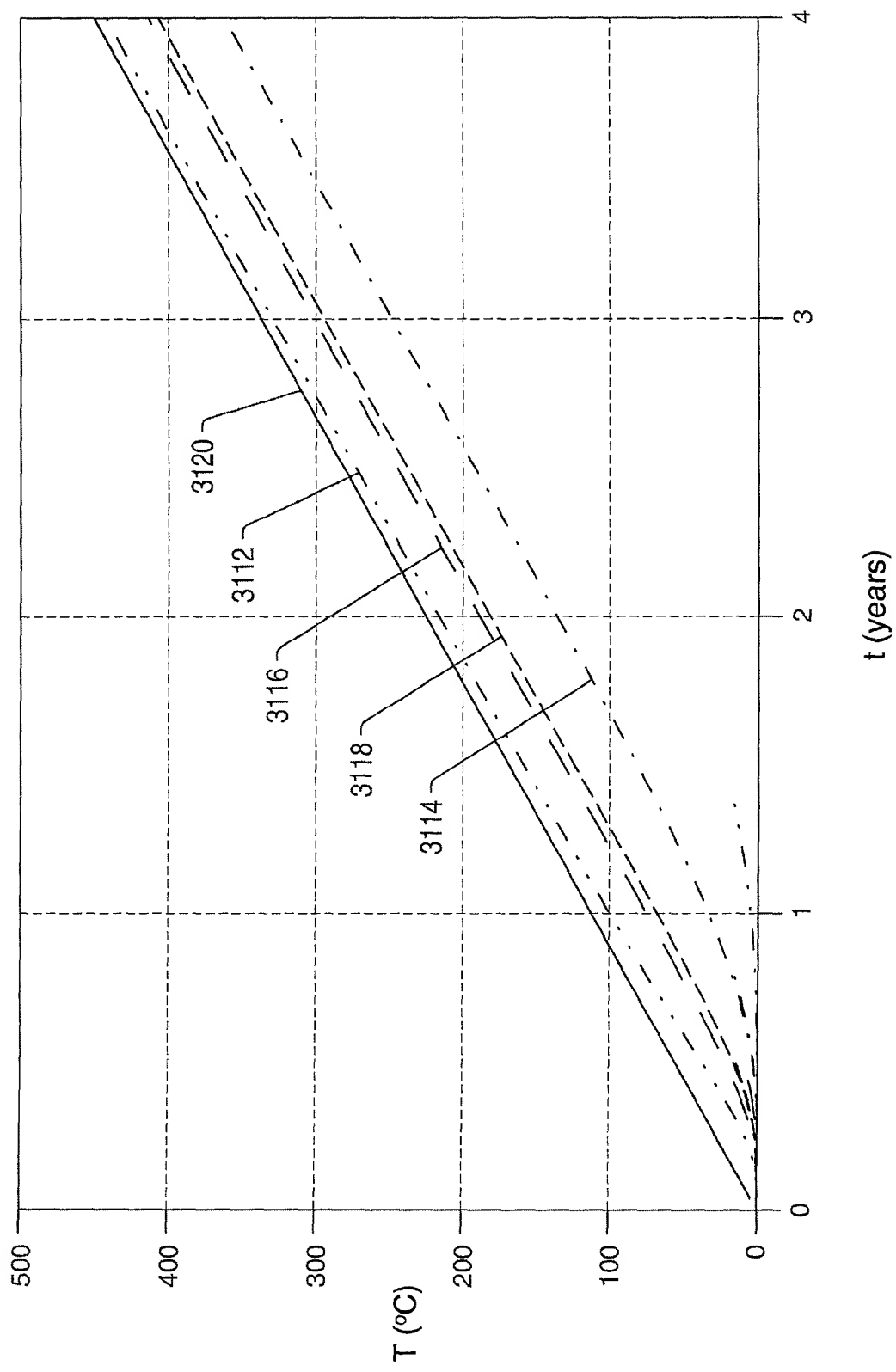


FIG. 81

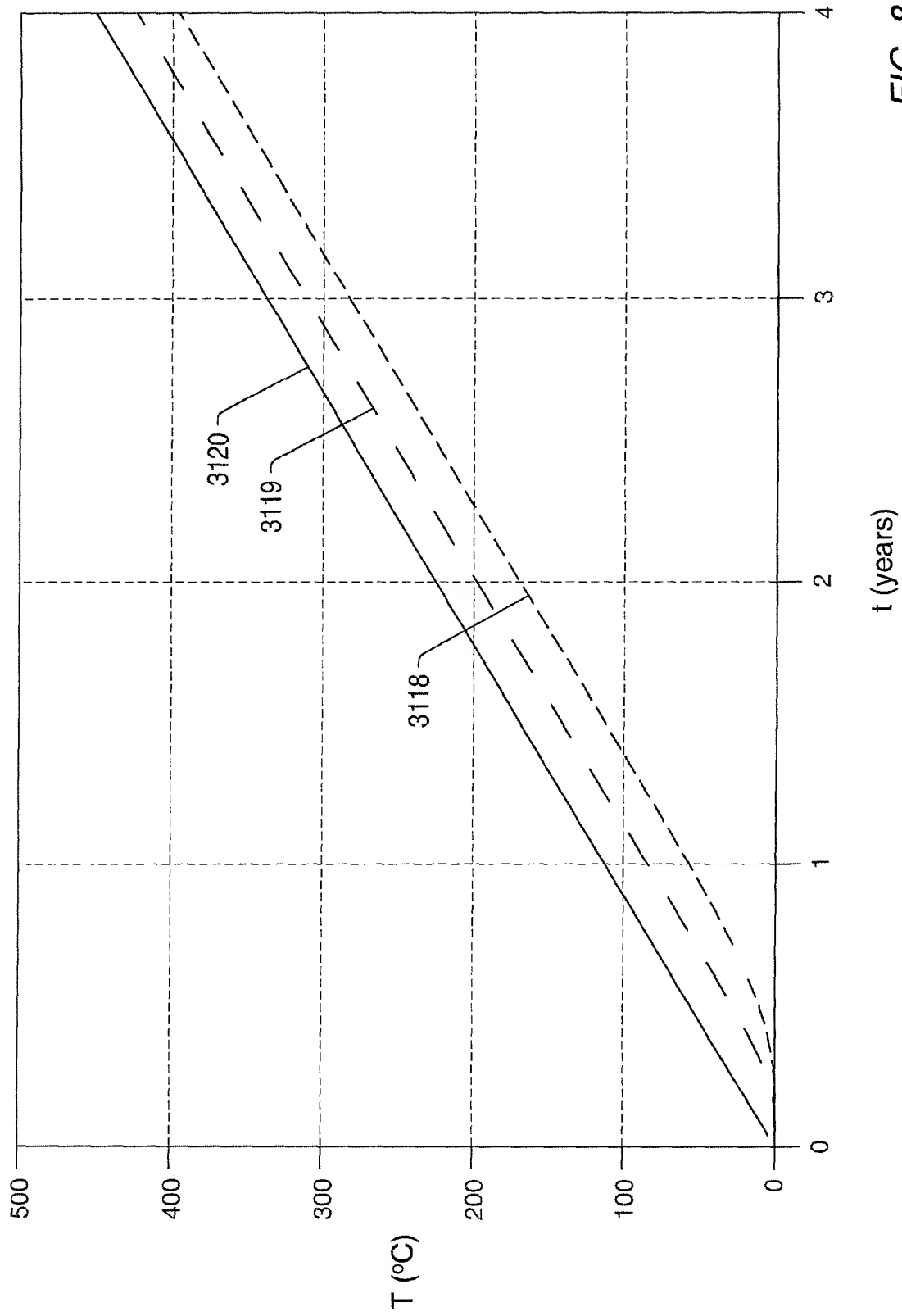


FIG. 81a

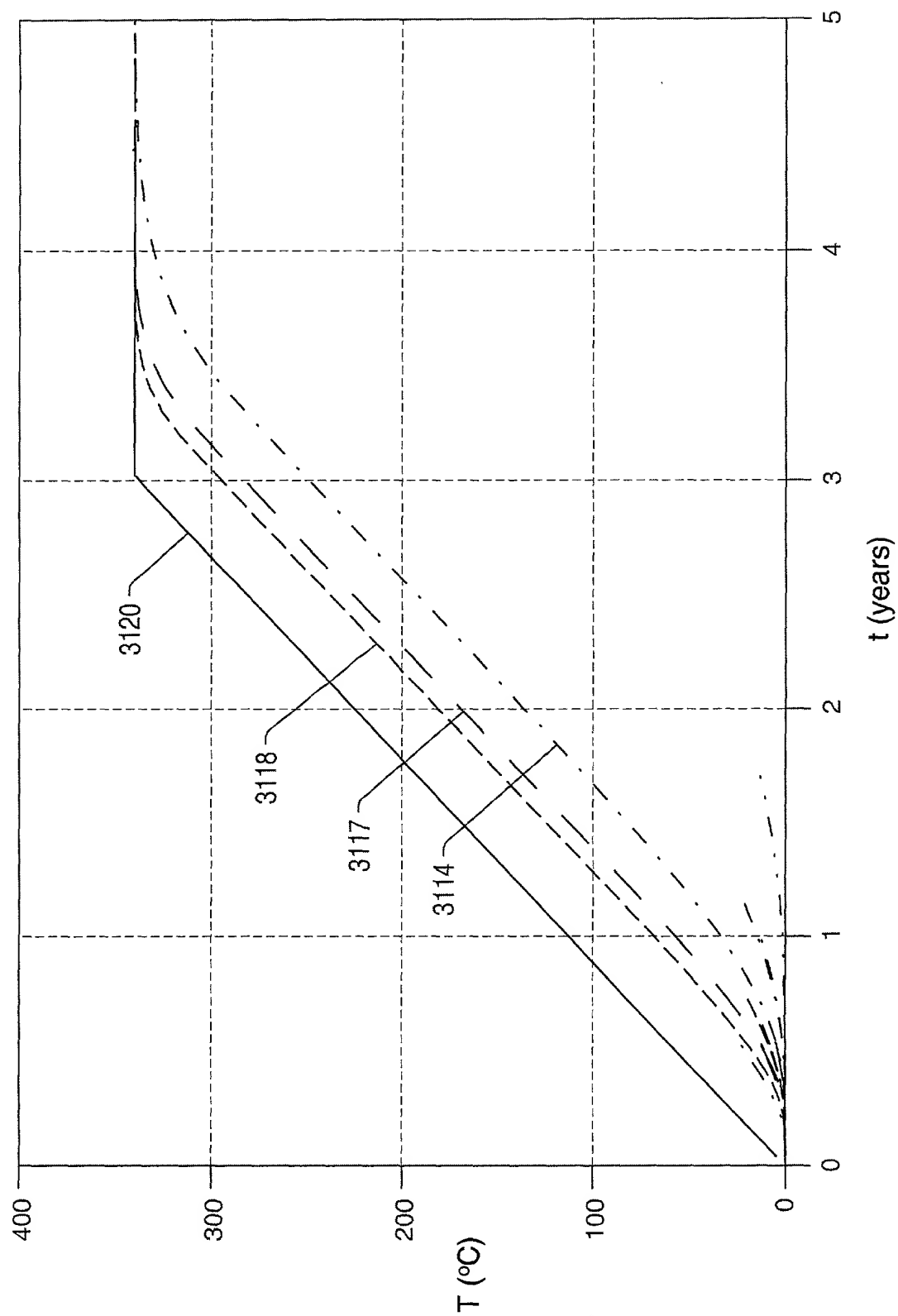


FIG. 81b

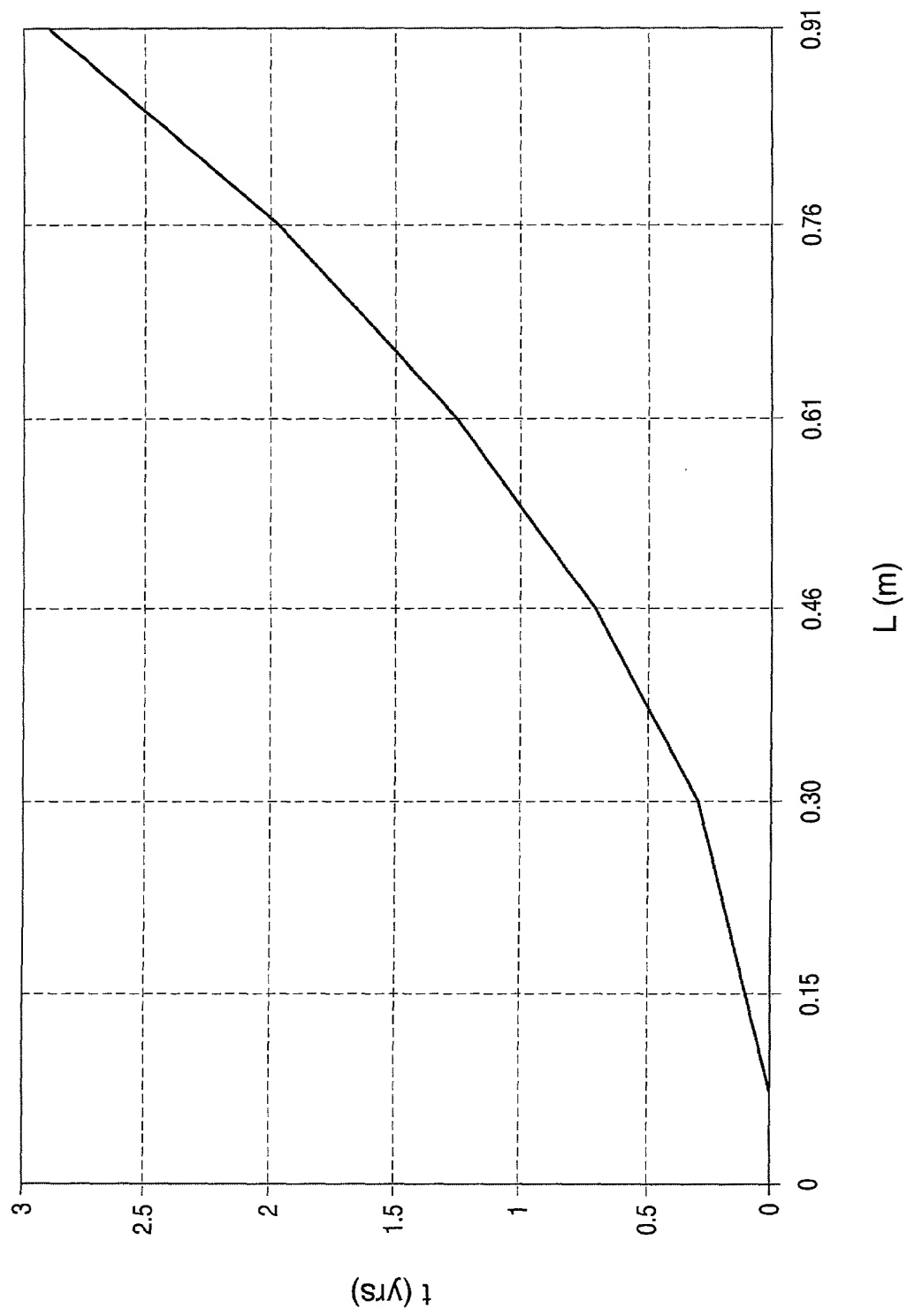


FIG. 82

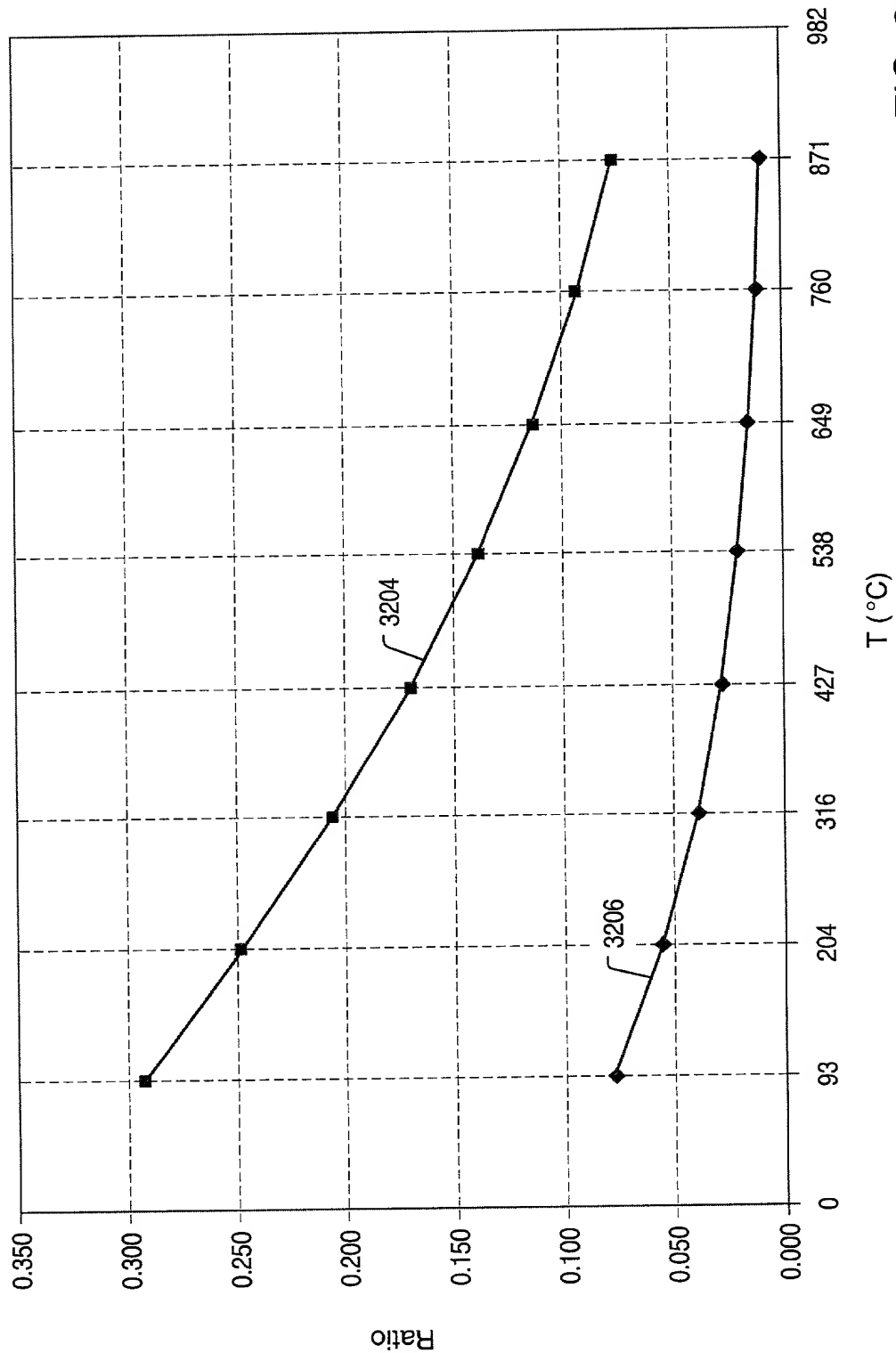


FIG. 83

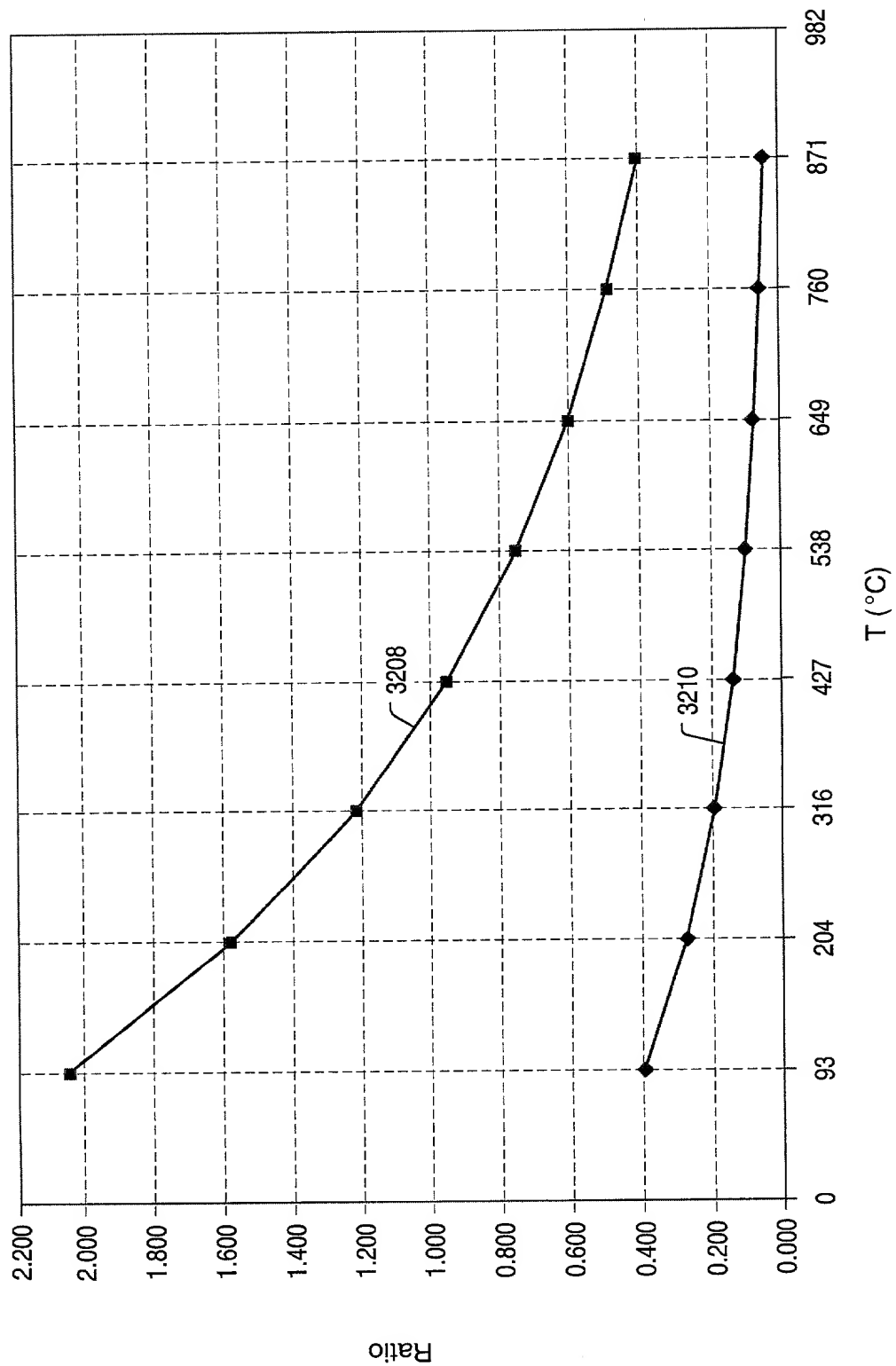


FIG. 84

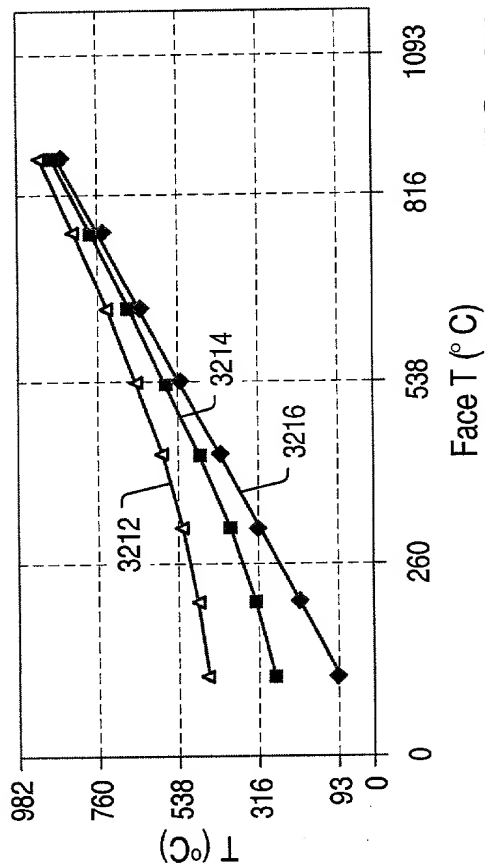


FIG. 85

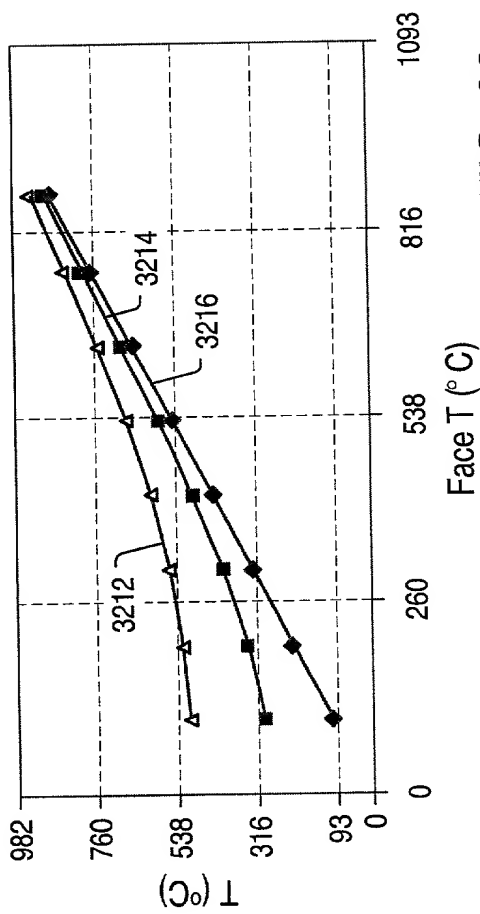


FIG. 86

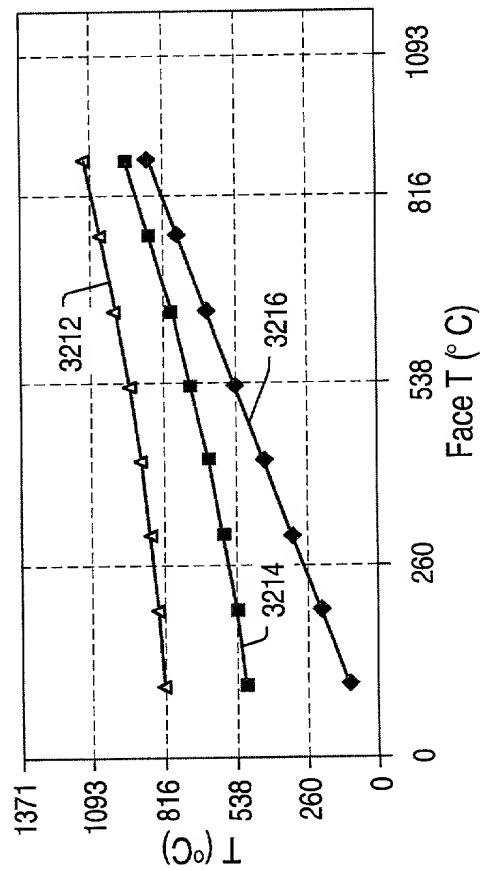


FIG. 87

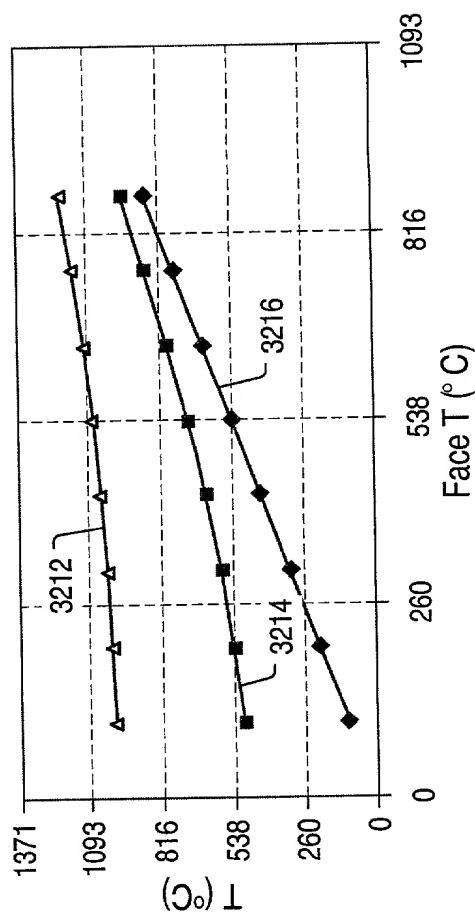


FIG. 88

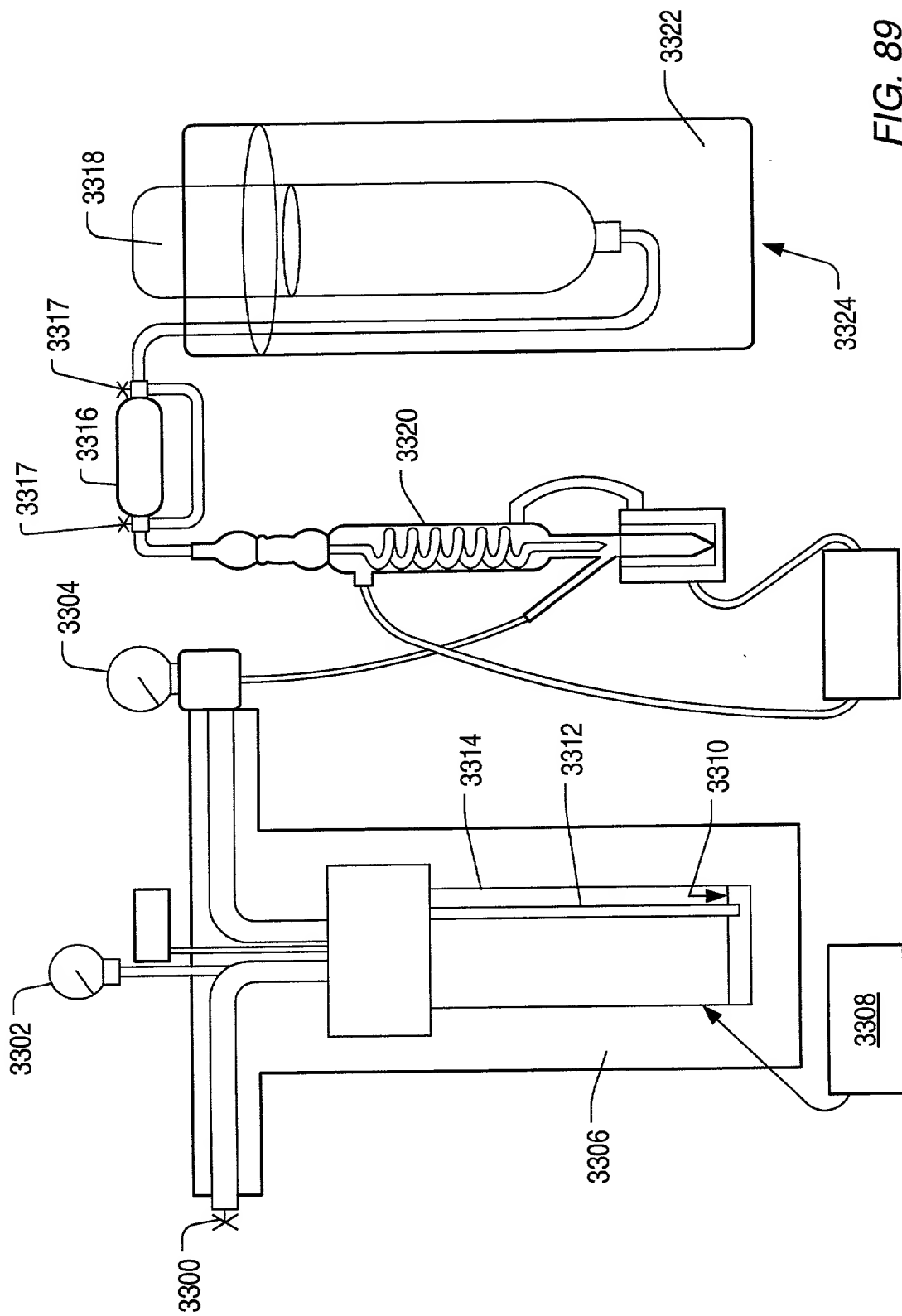


FIG. 89

Downloaded from www.ascelibrary.org by University of California, San Diego on 06/01/15

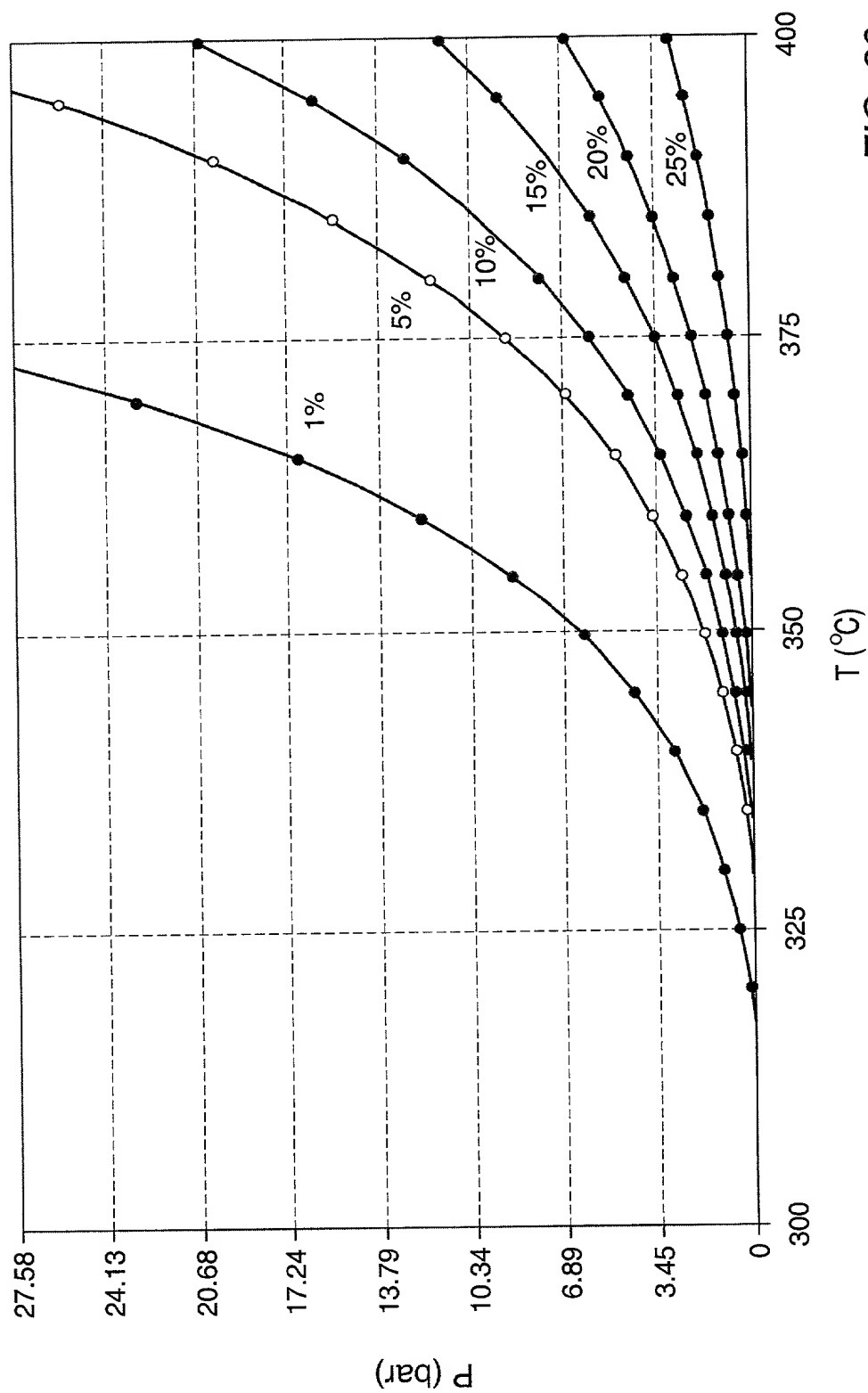


FIG. 90

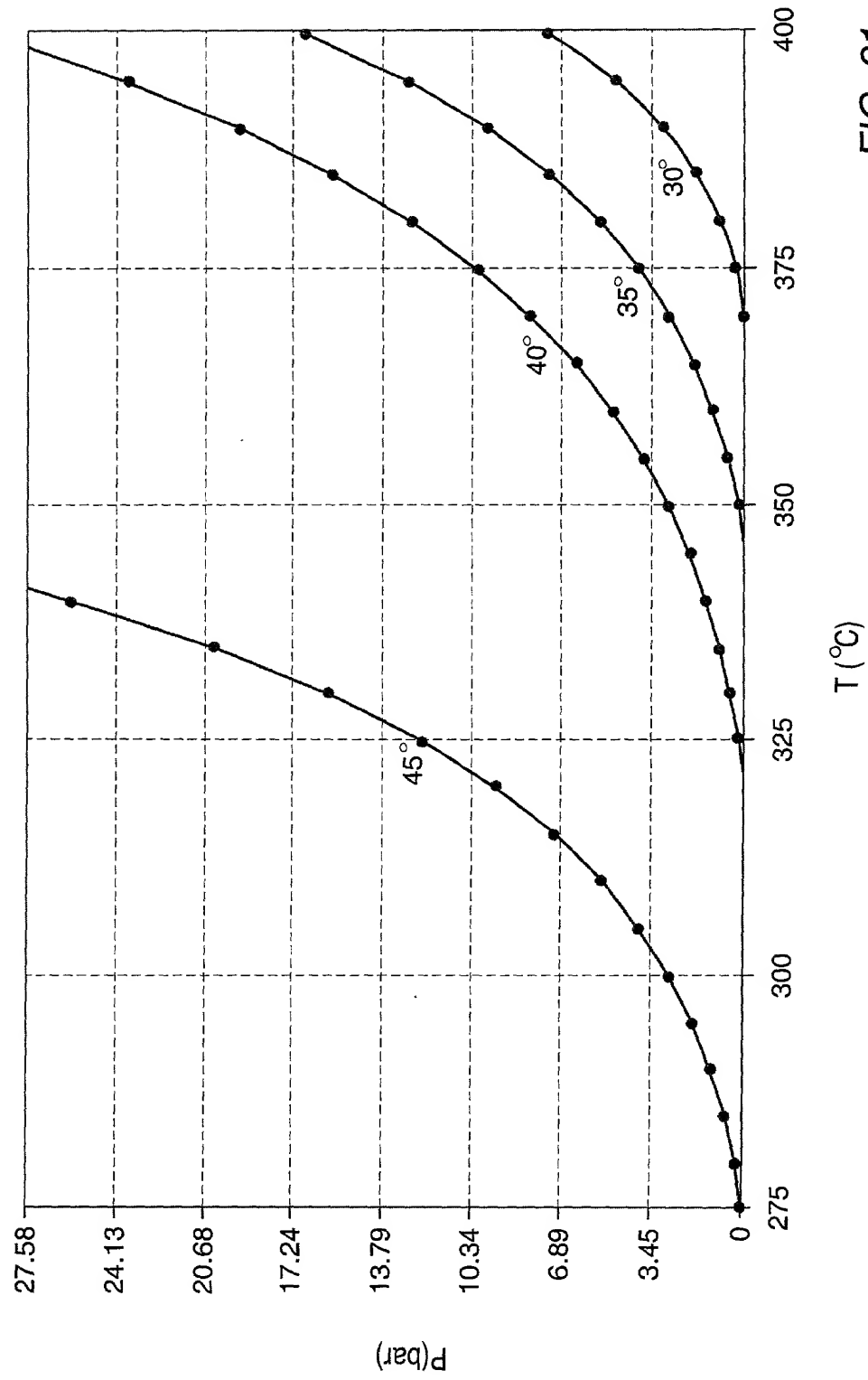


FIG. 91

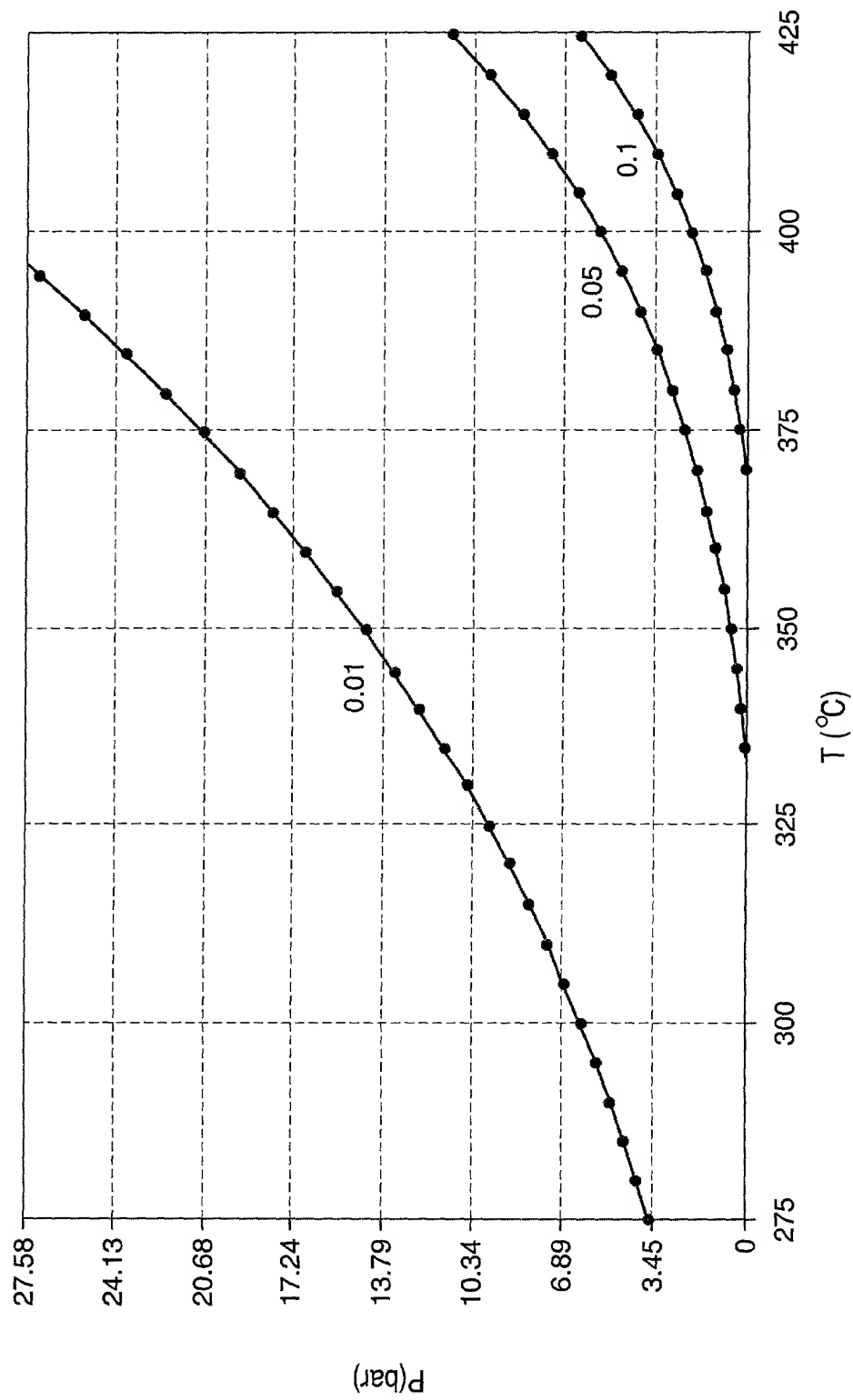


FIG. 92

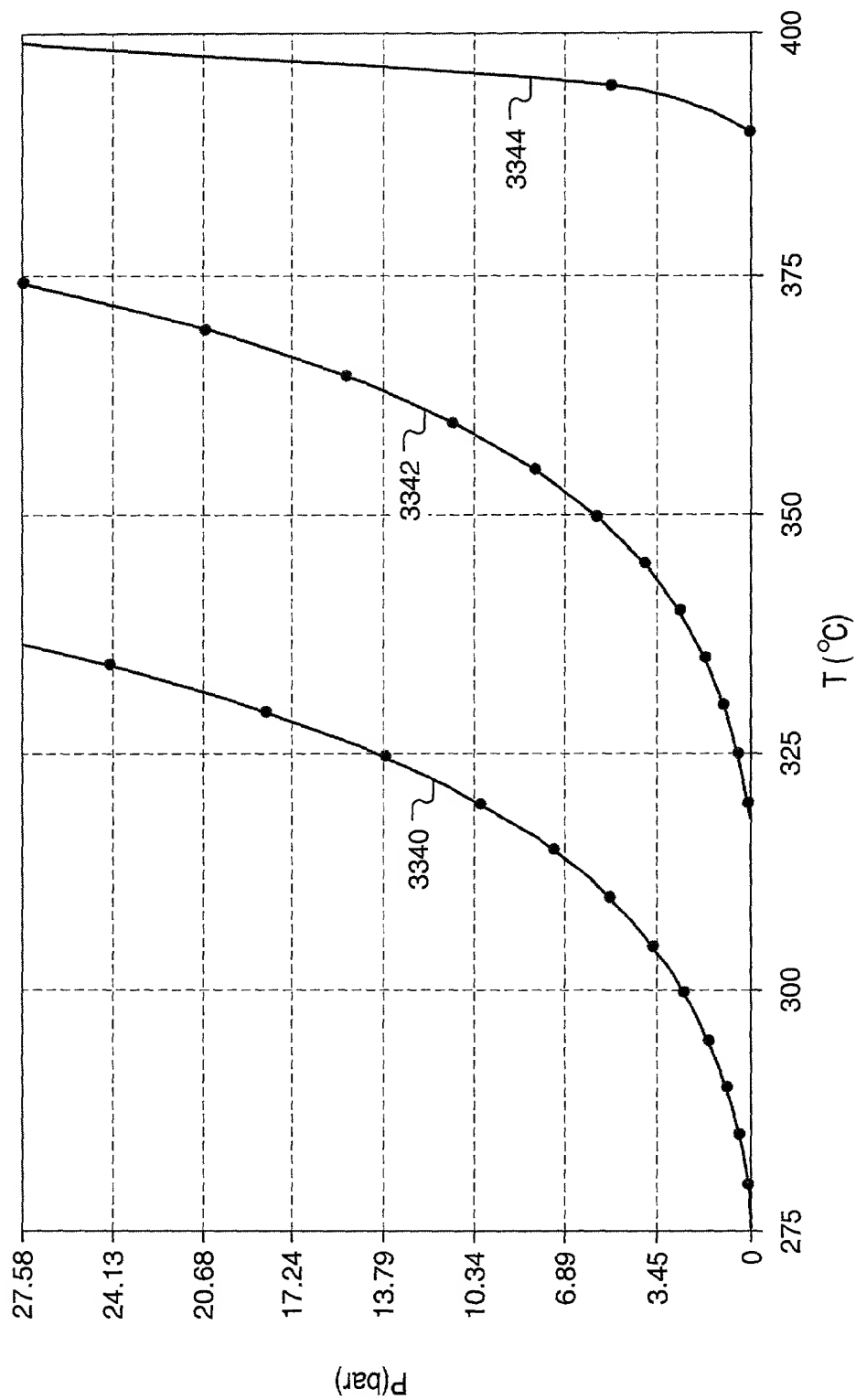


FIG. 93

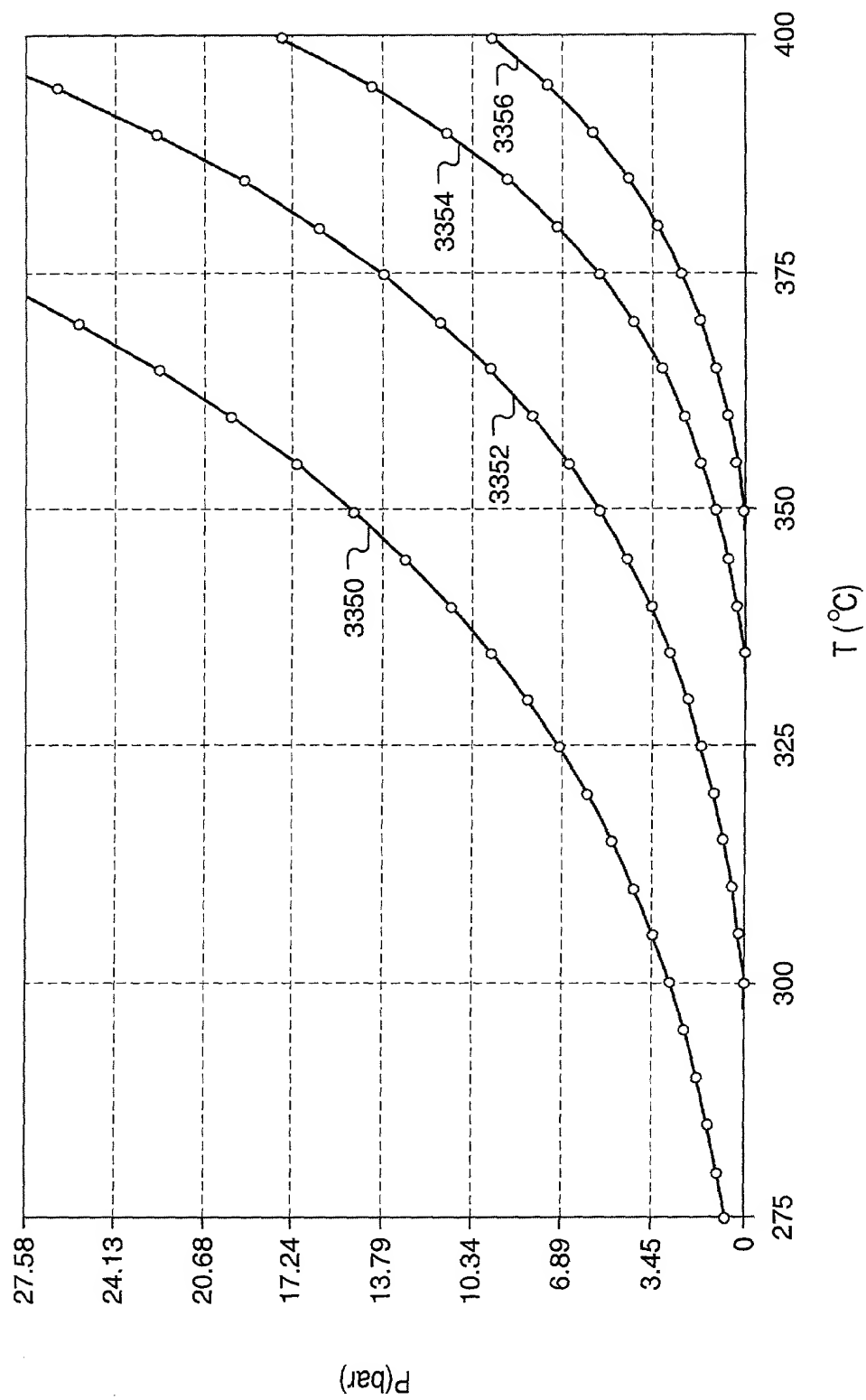


FIG. 94

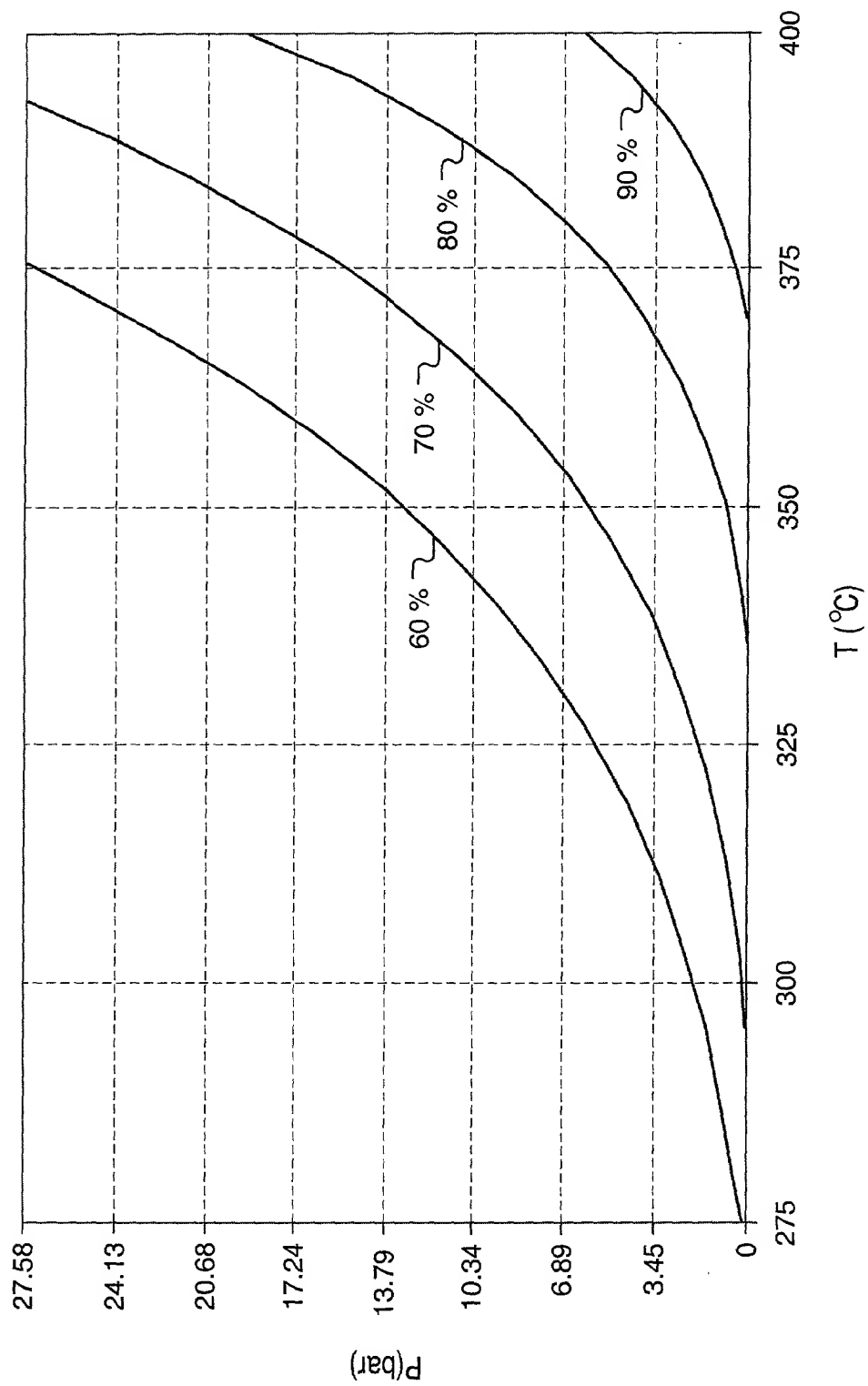


FIG. 95

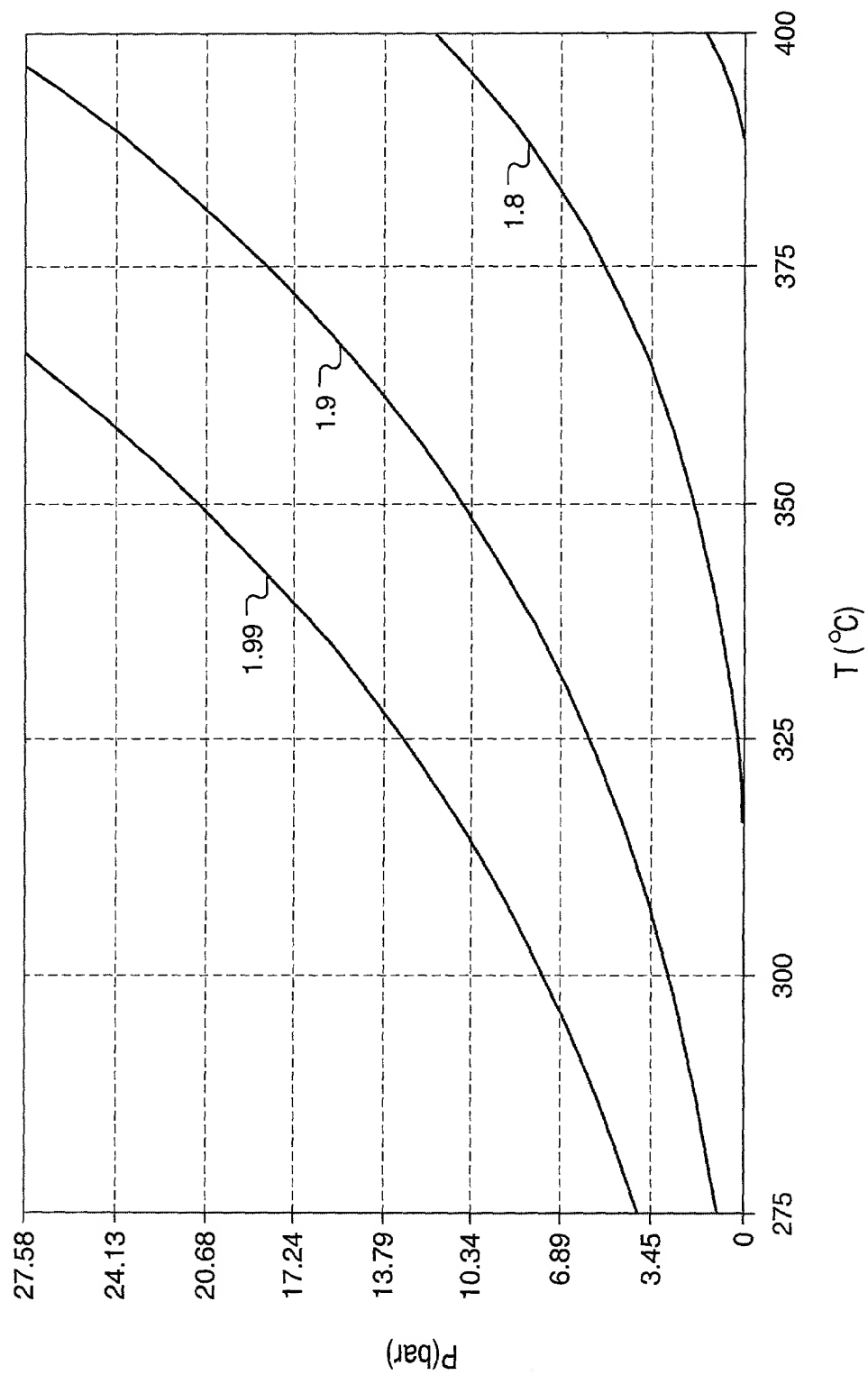


FIG. 96

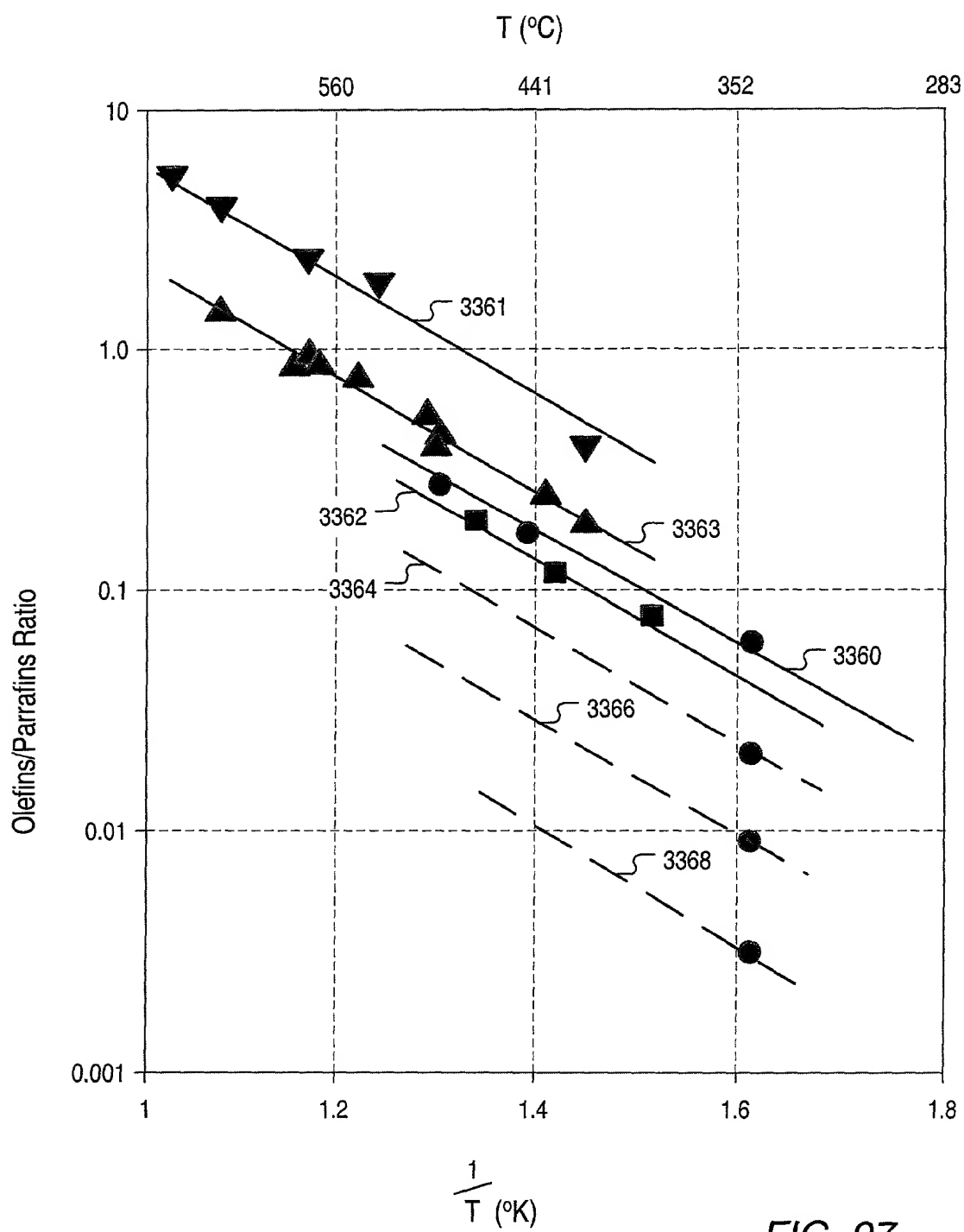


FIG. 97

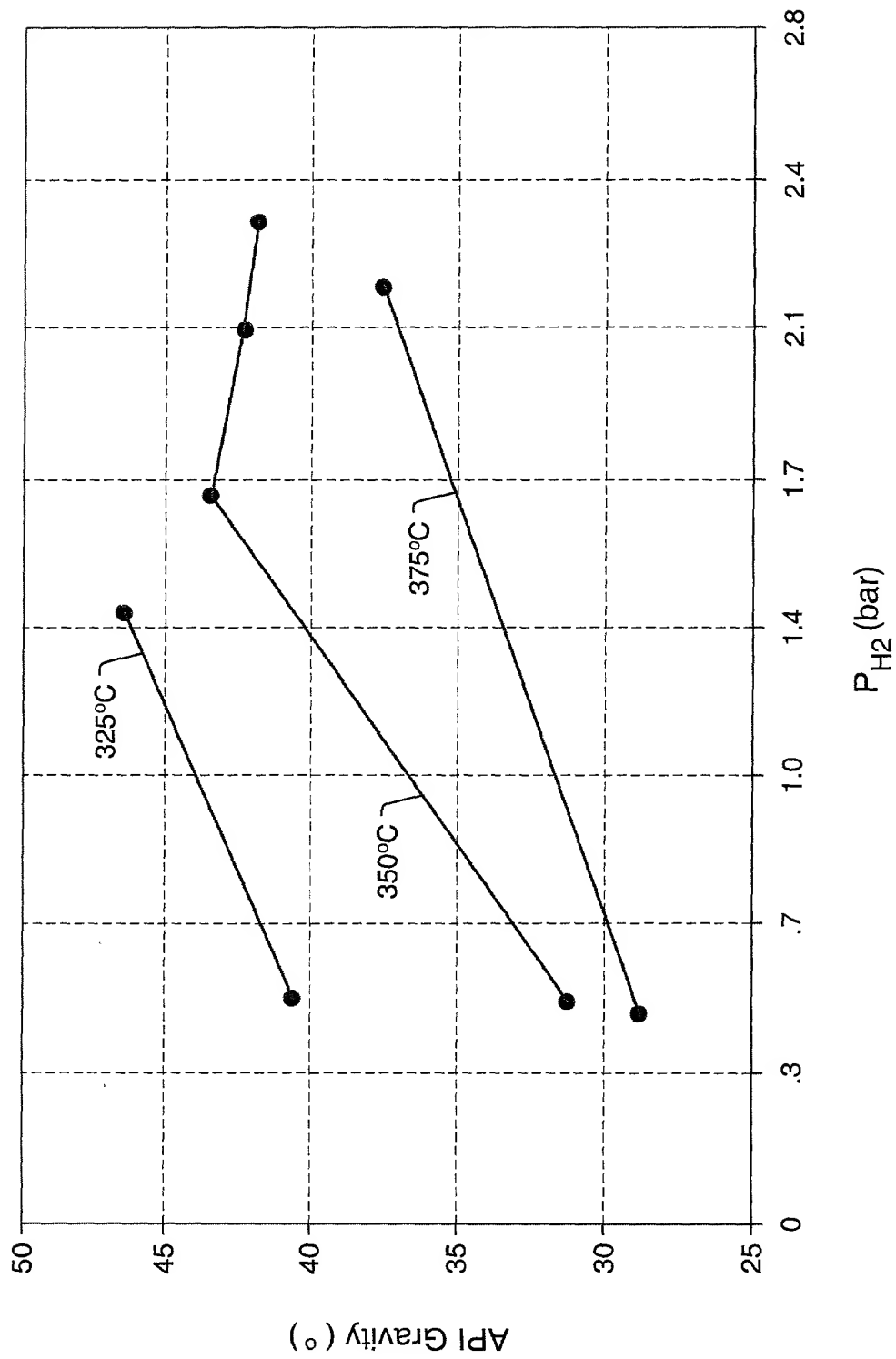


FIG. 98

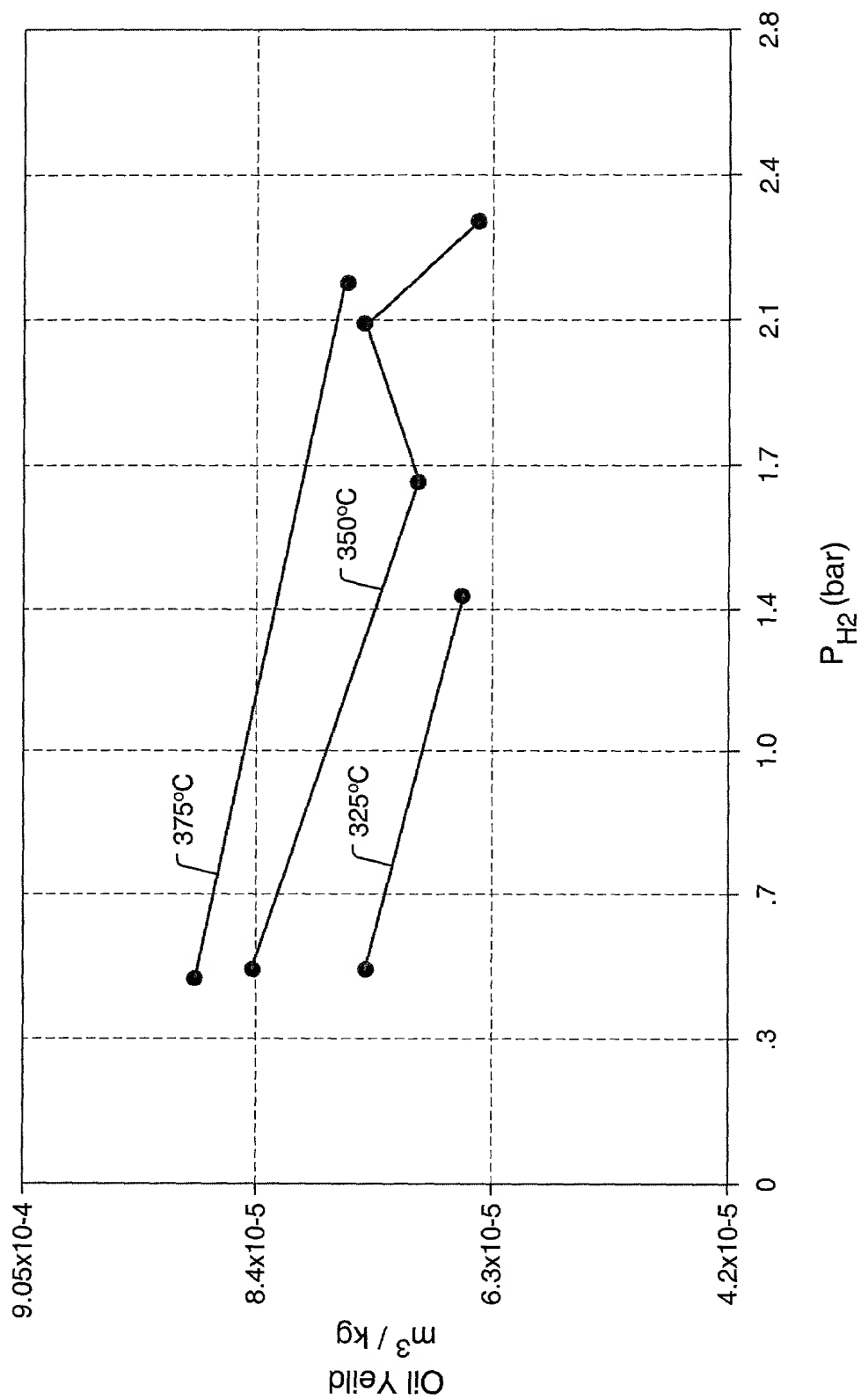


FIG. 99

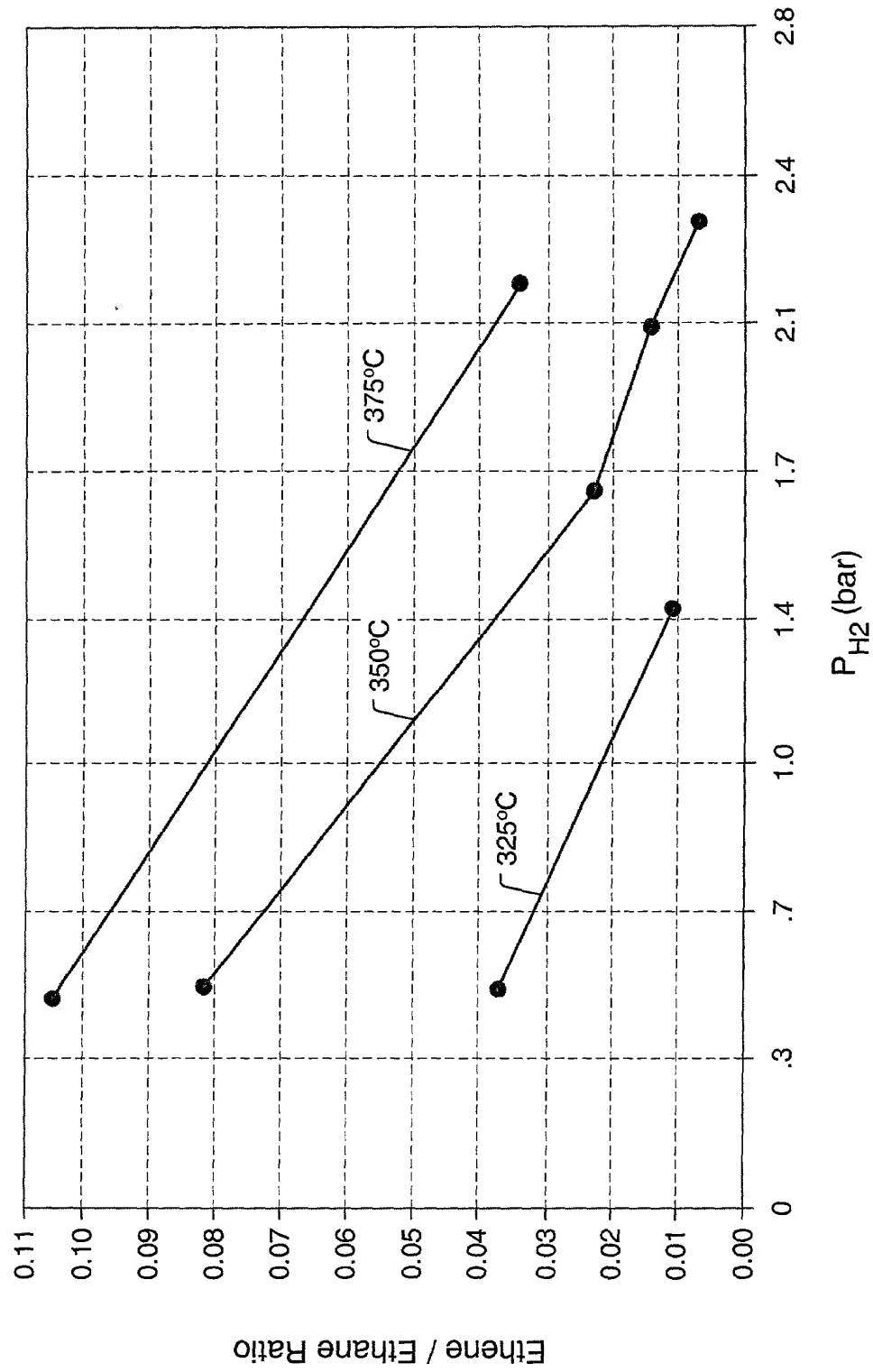


FIG. 100

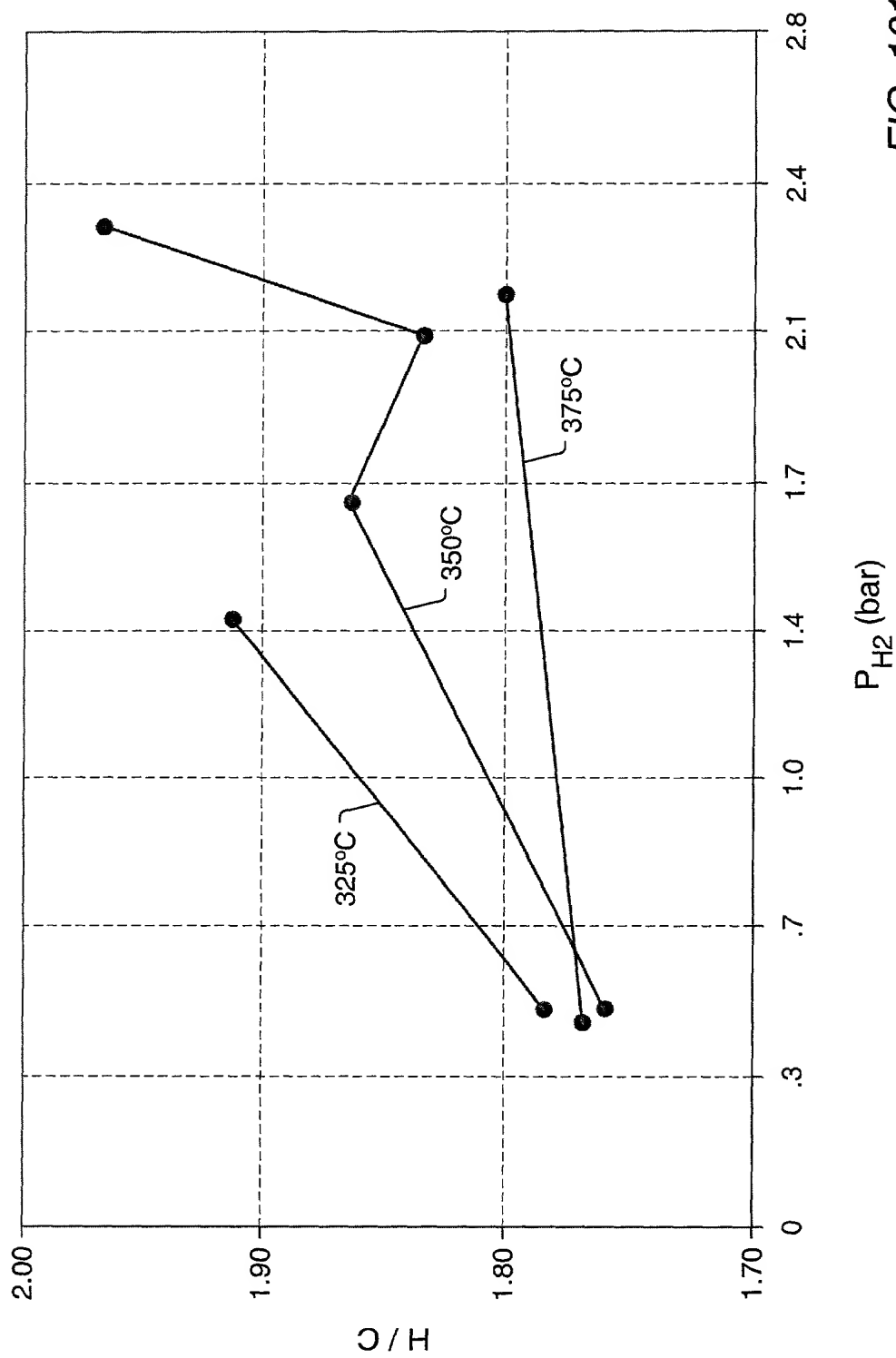


FIG. 101

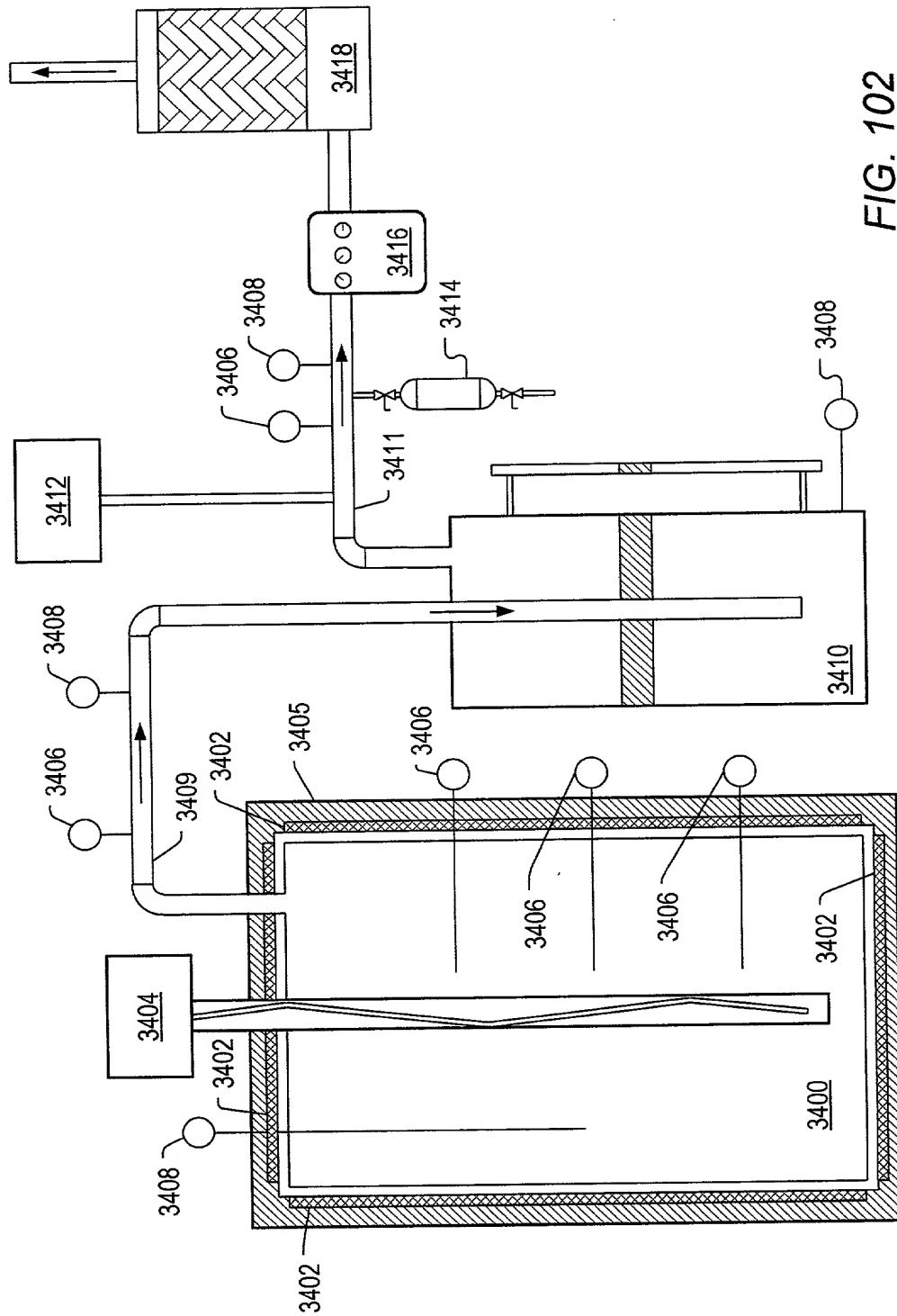


FIG. 102

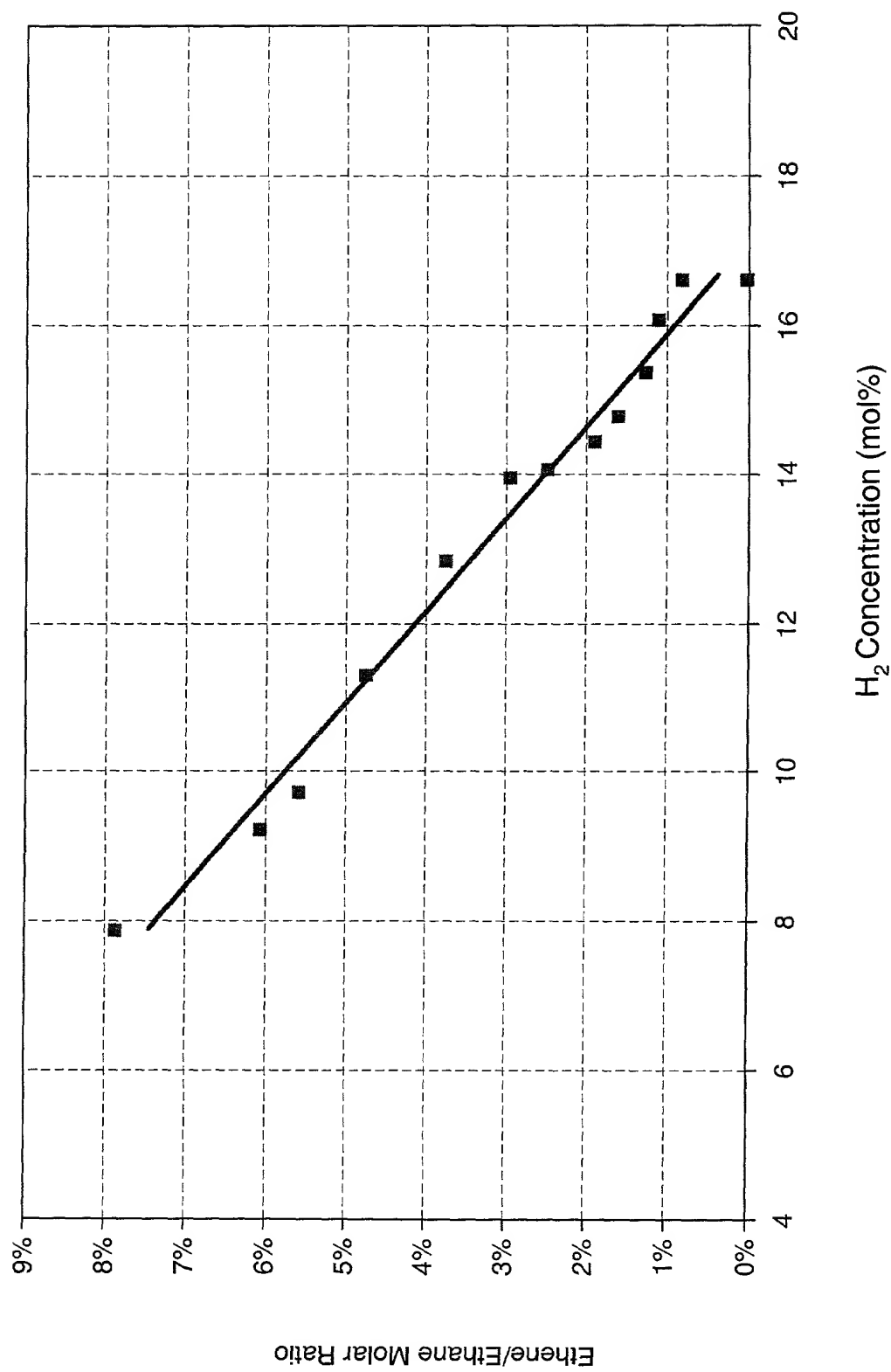
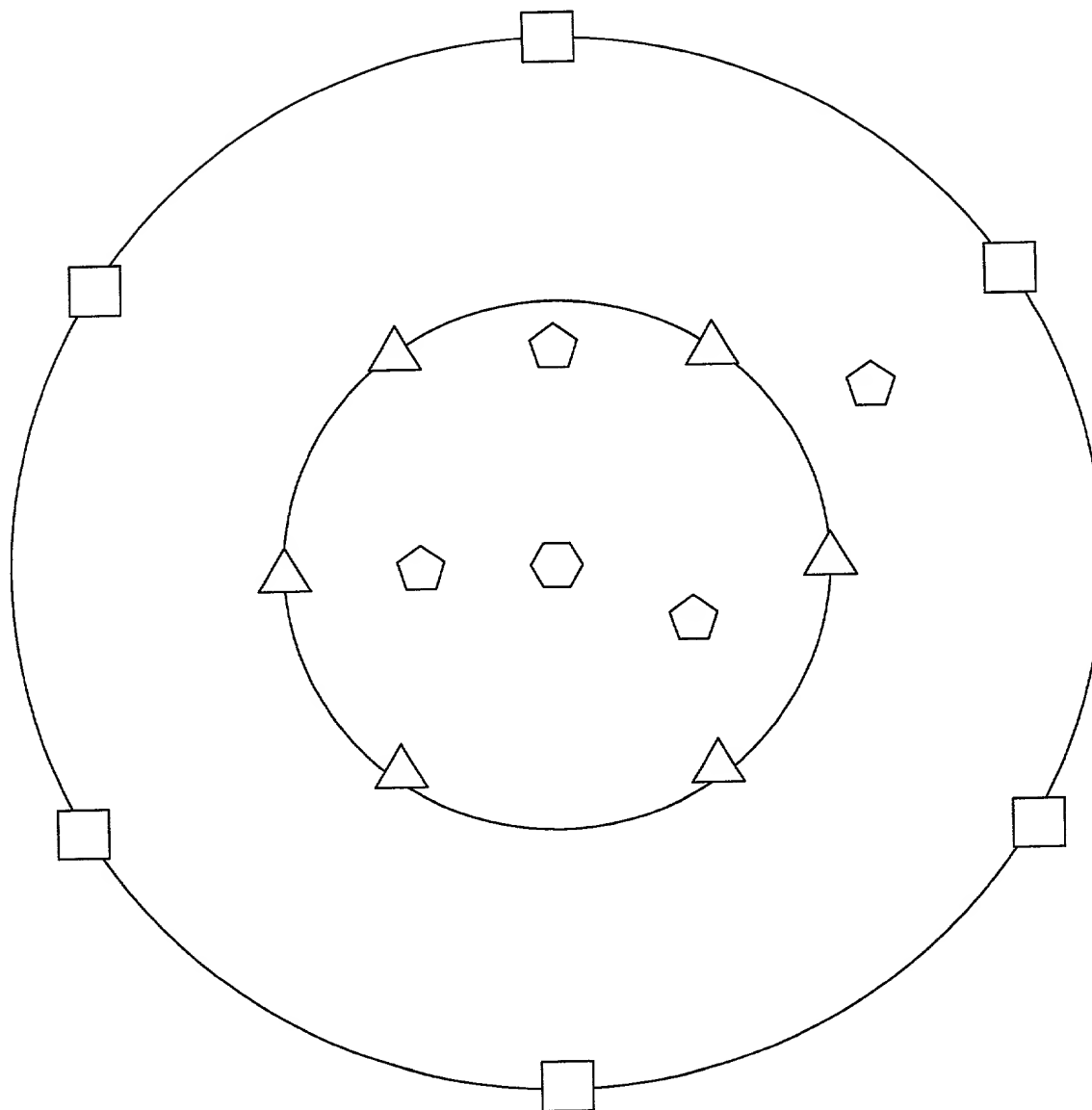


FIG. 103



△ - 3600

⬠ - 3603

□ - 3604

⬡ - 3602

FIG. 104

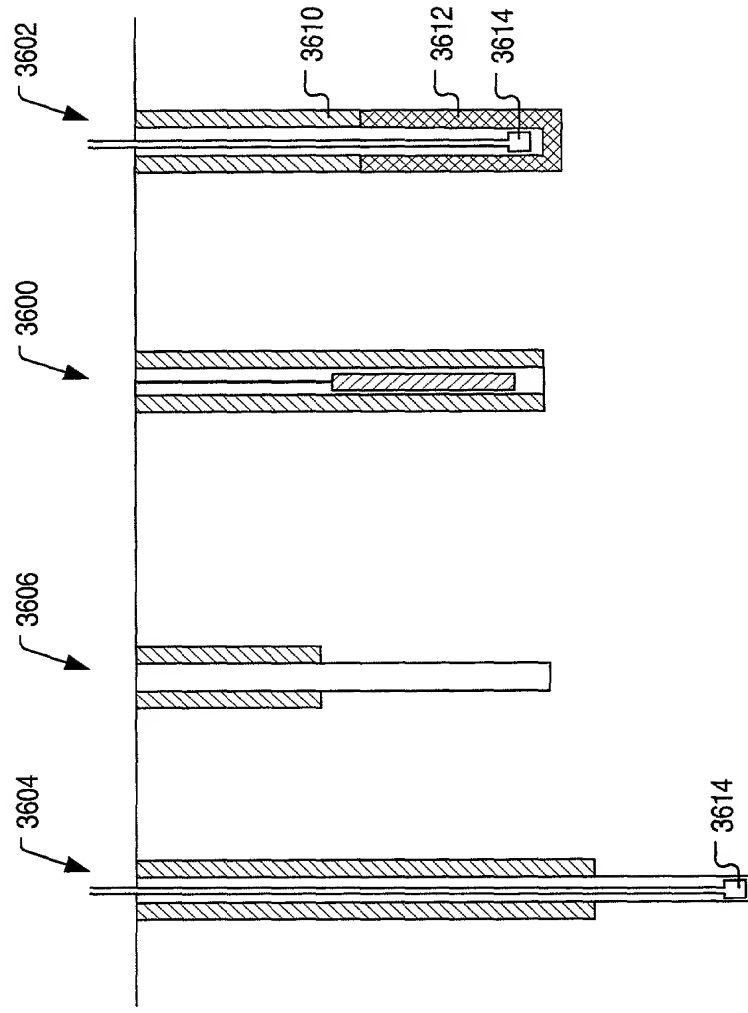


FIG. 105

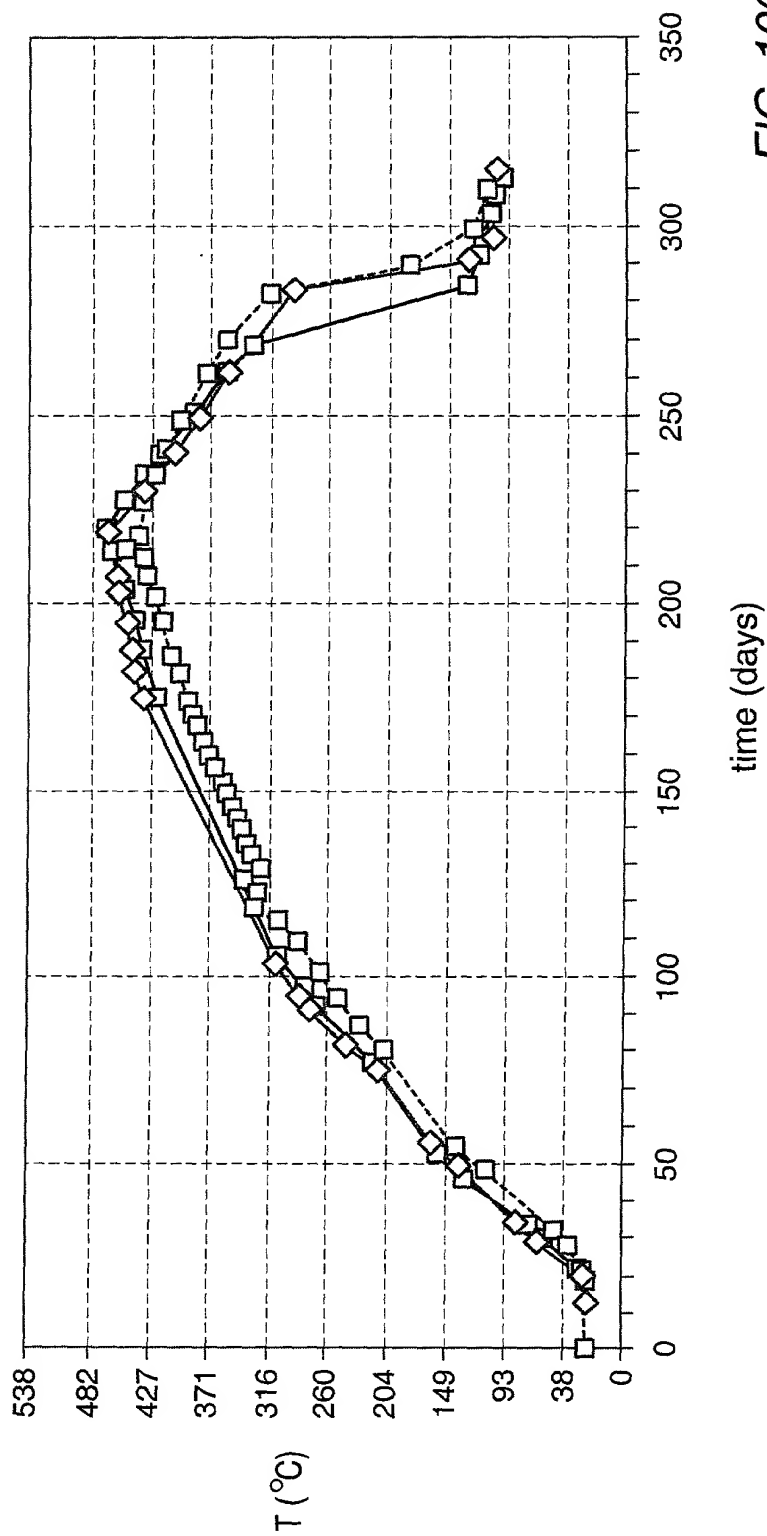


FIG. 106

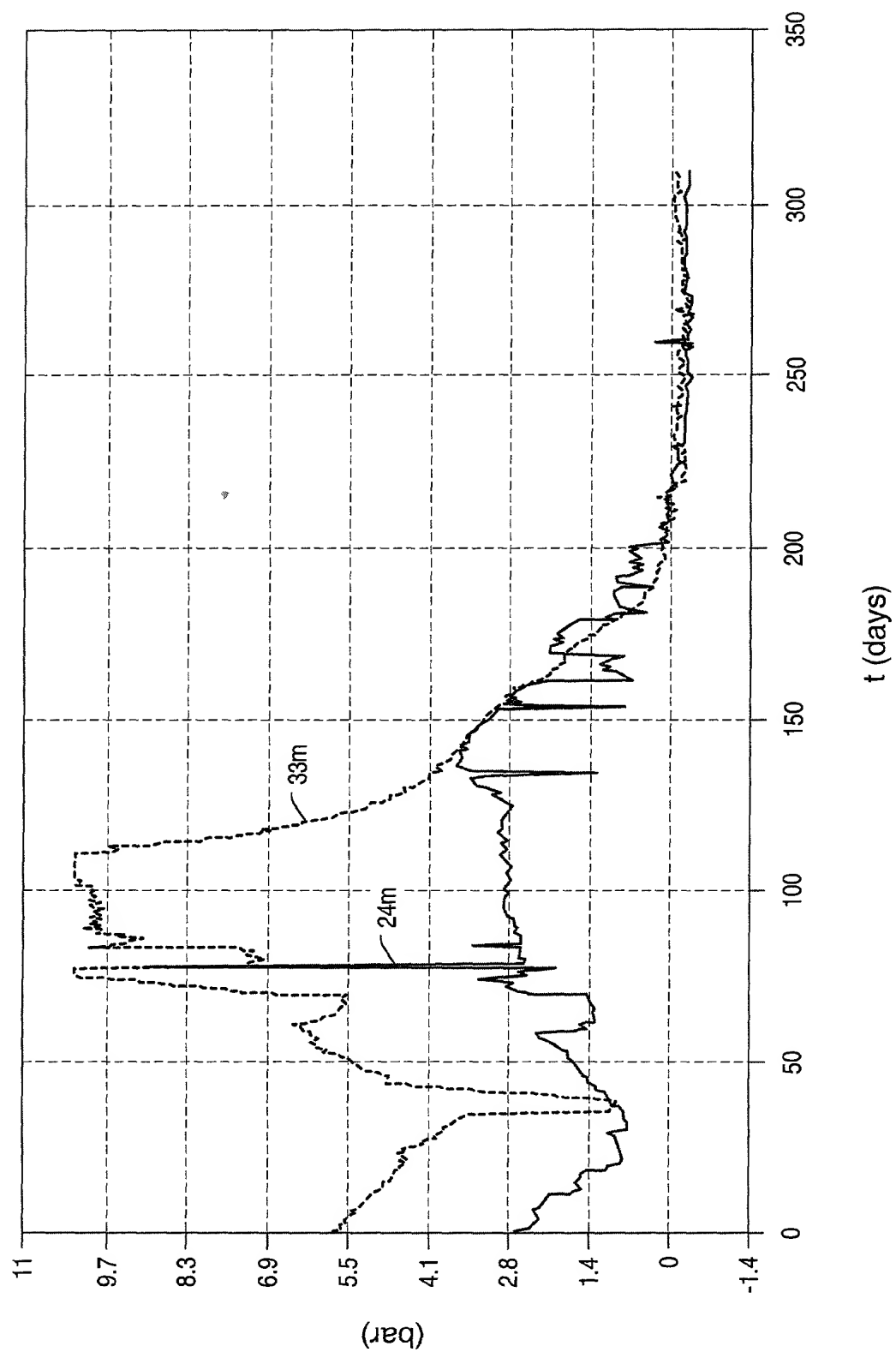


FIG. 107

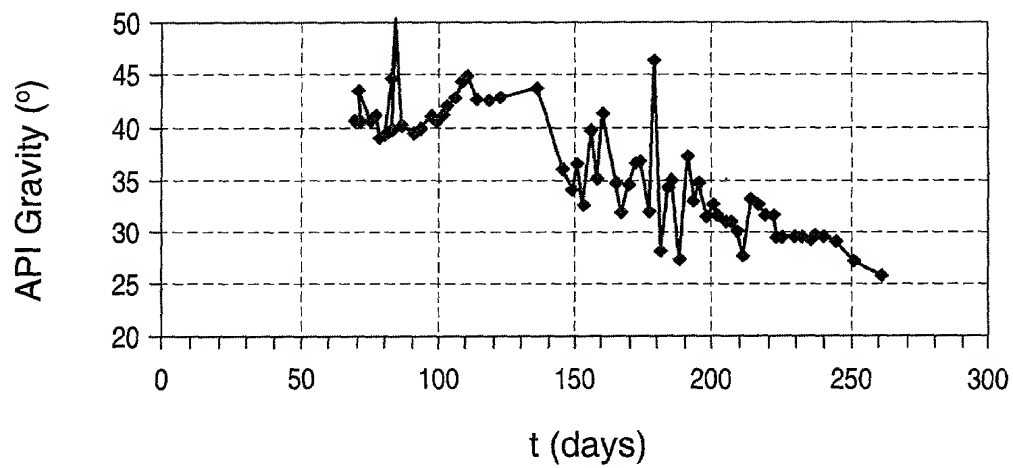


FIG. 108

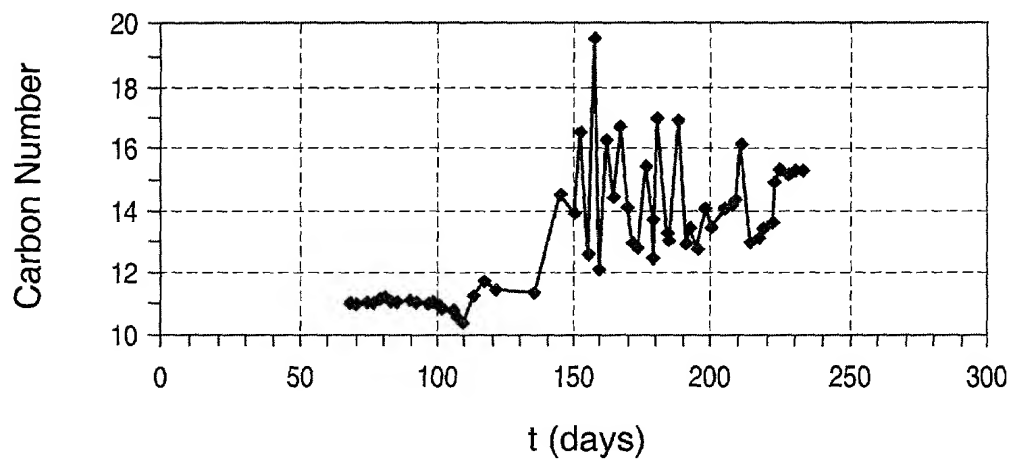


FIG. 109

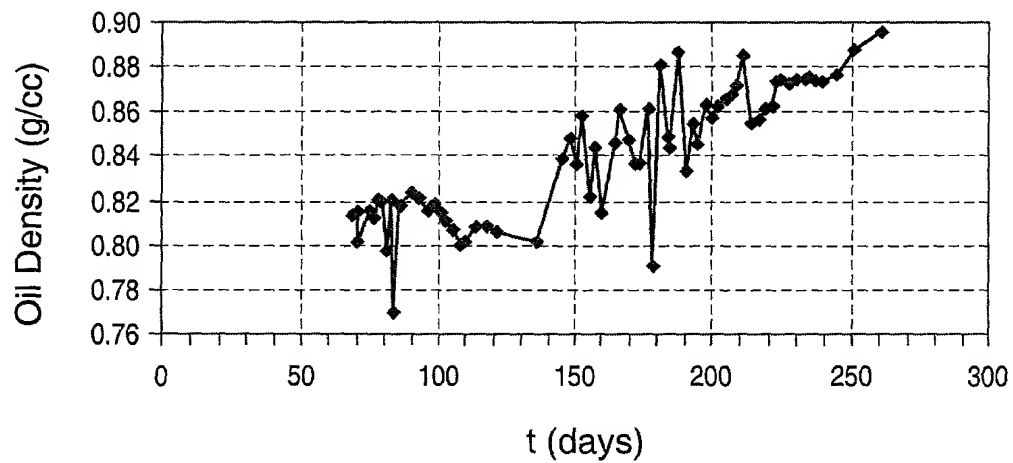


FIG. 110

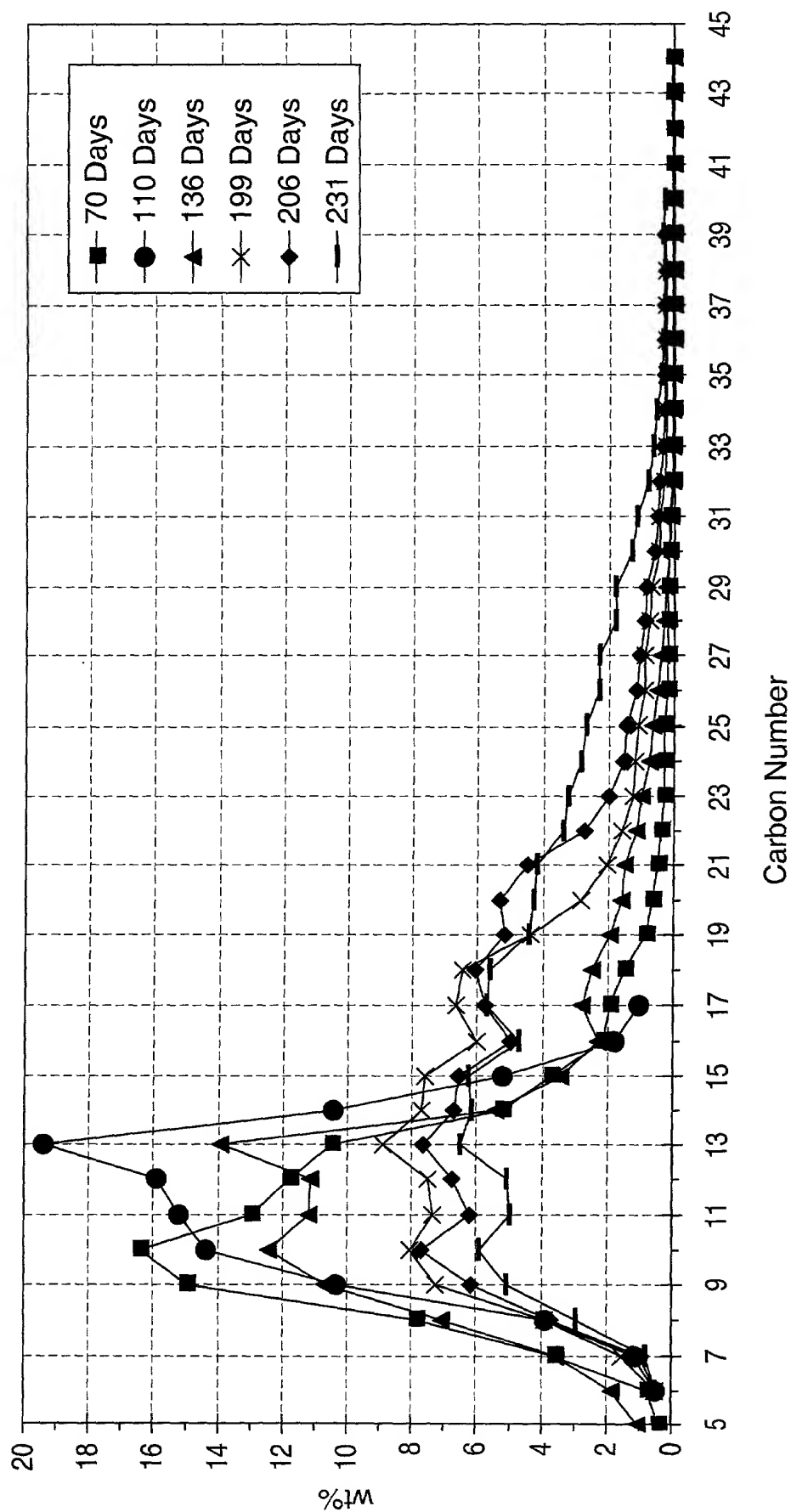


FIG. 111

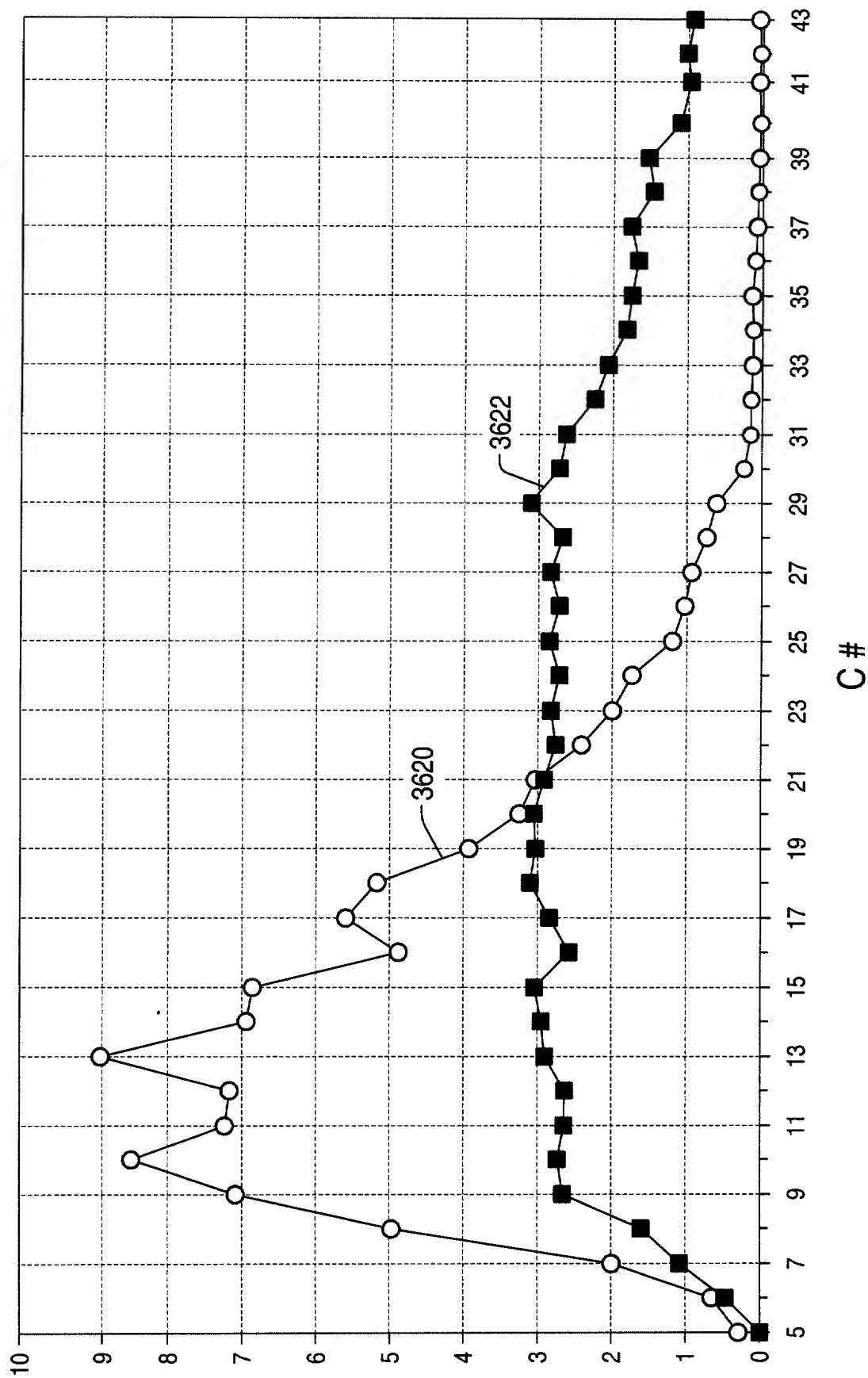


FIG. 112

SCANNED, # 4

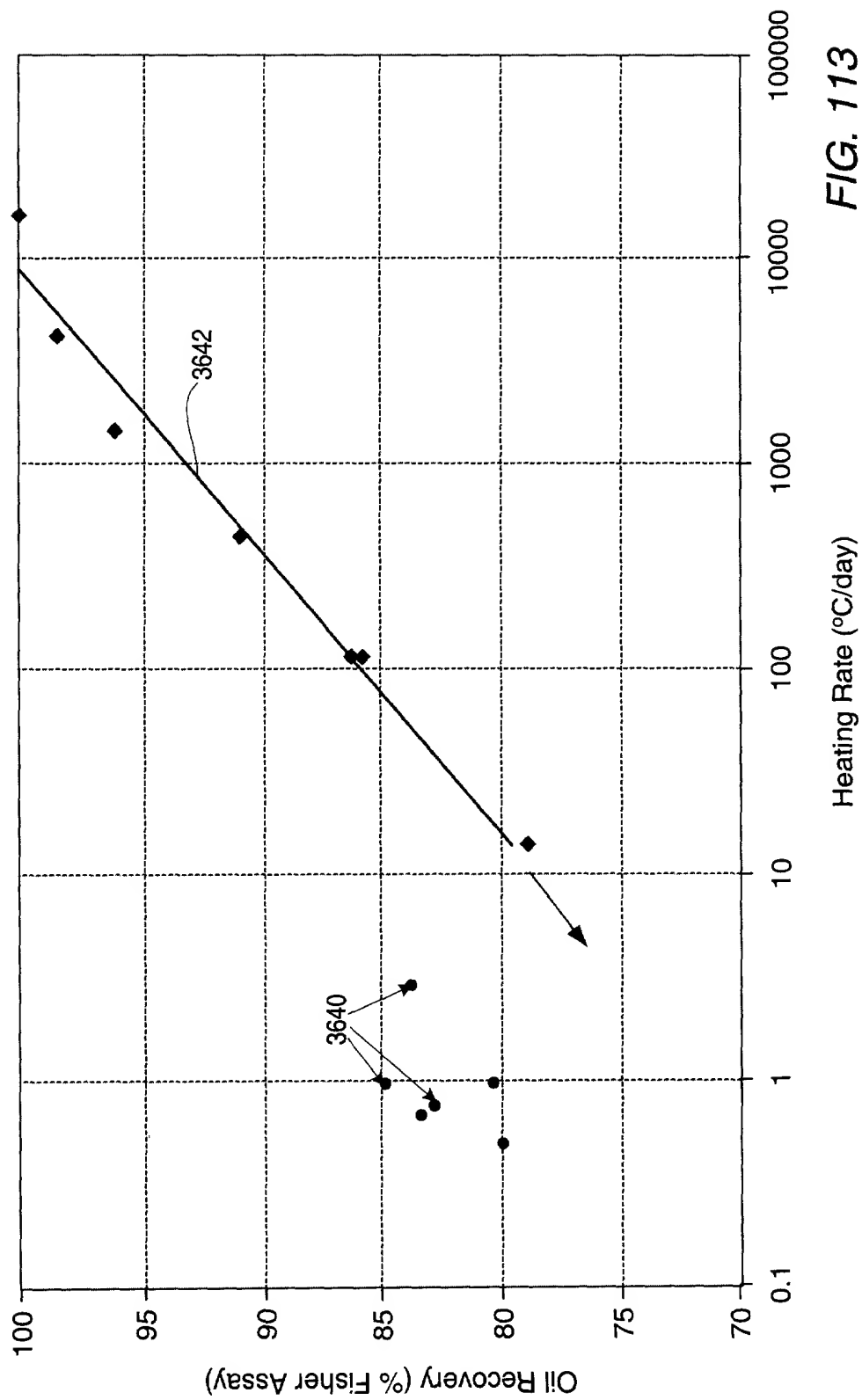


FIG. 113

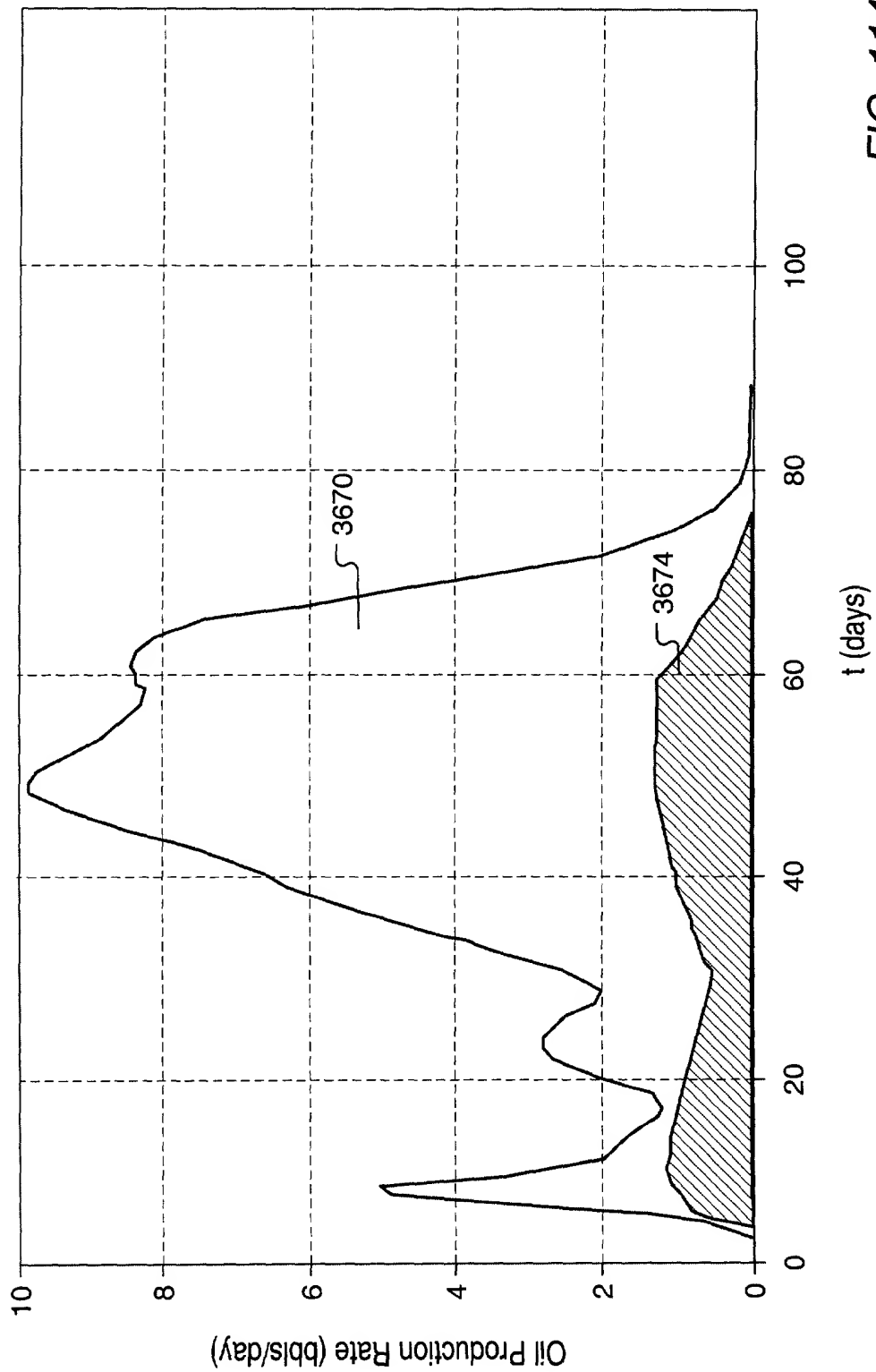
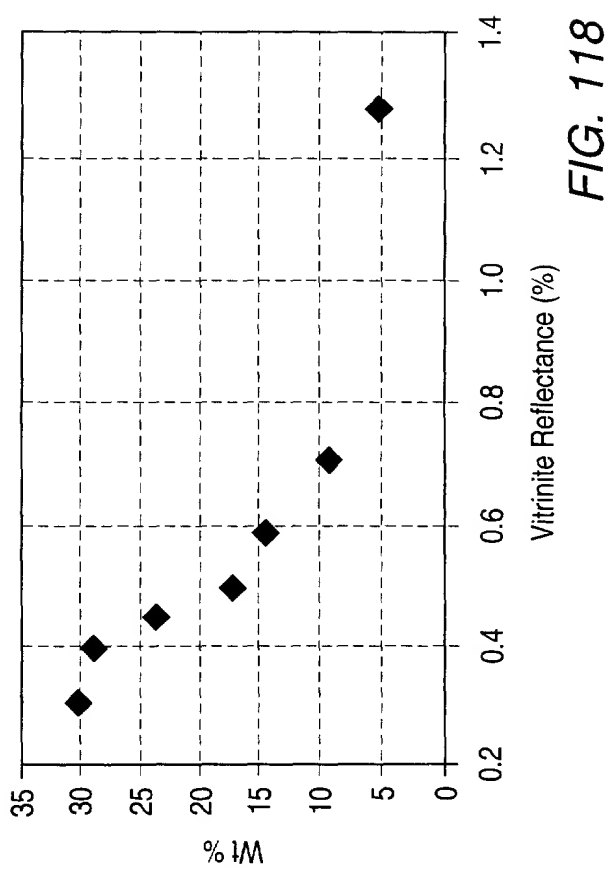
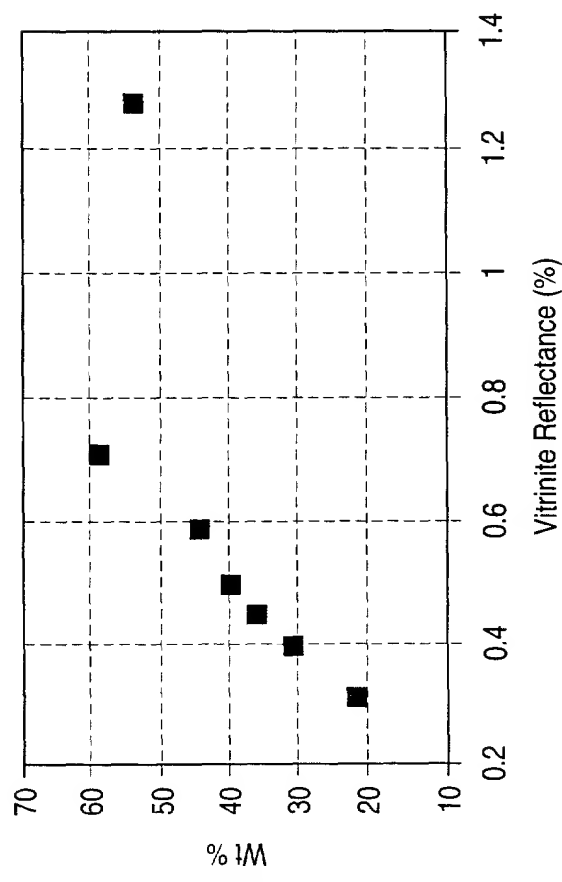
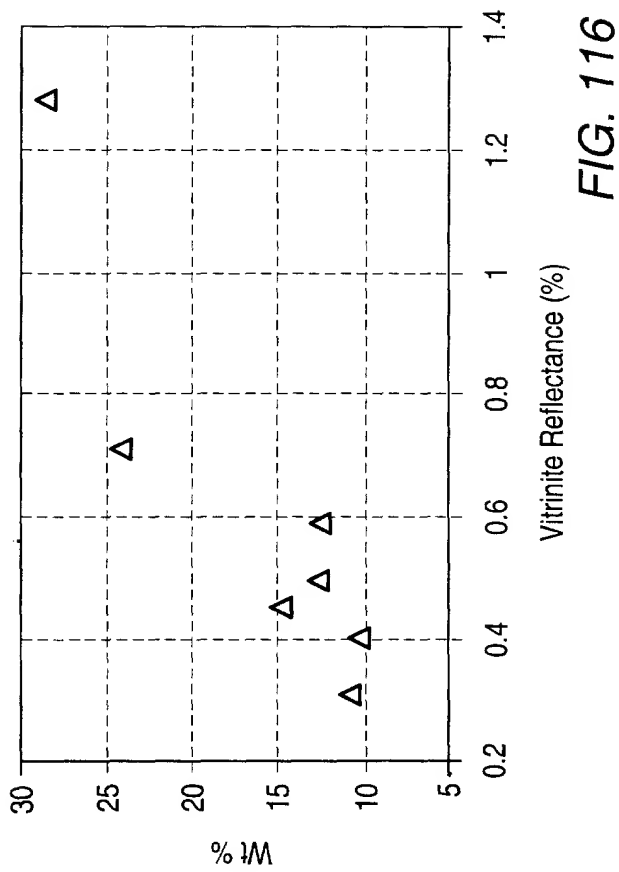
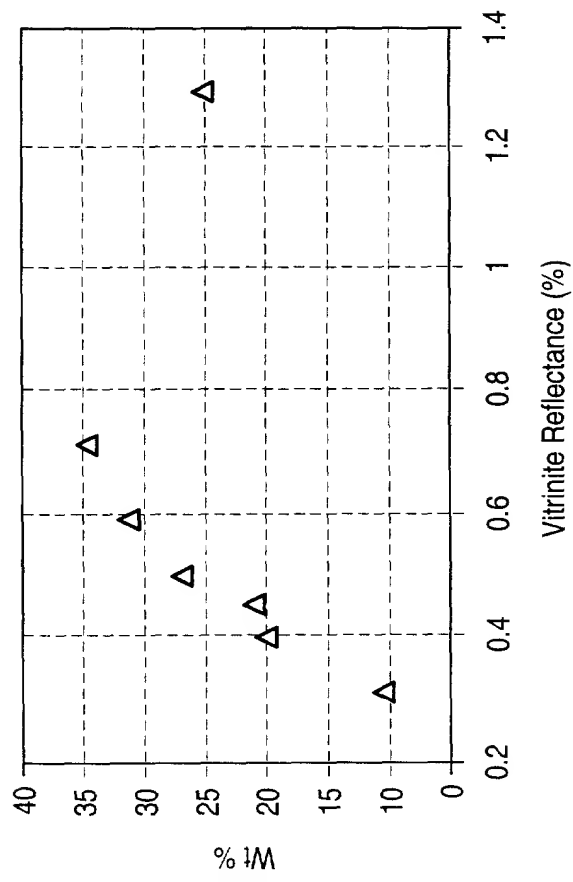


FIG. 114



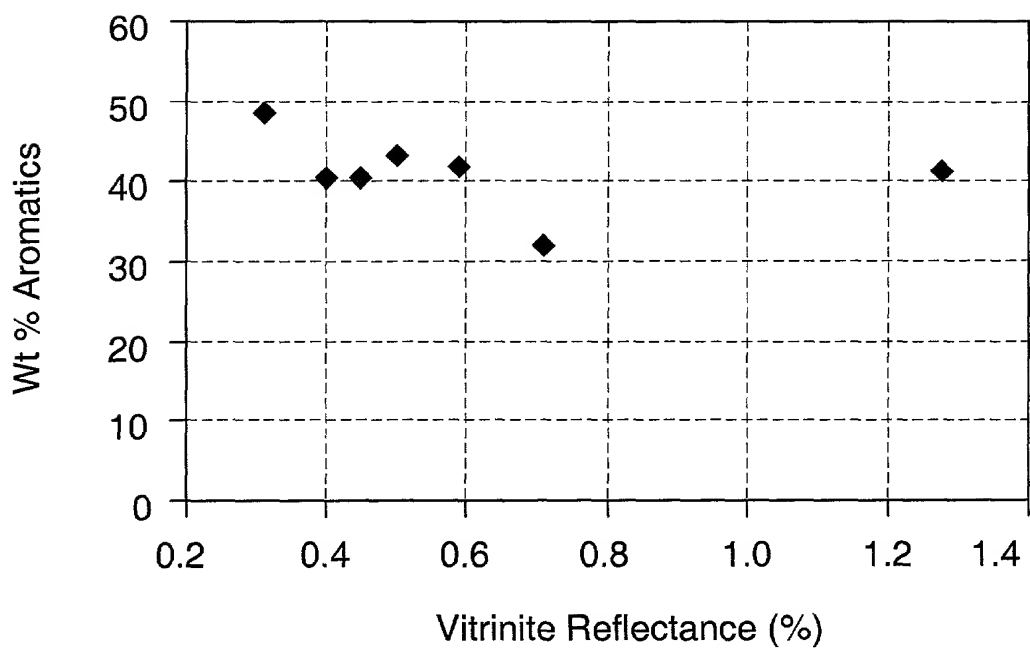


FIG. 119

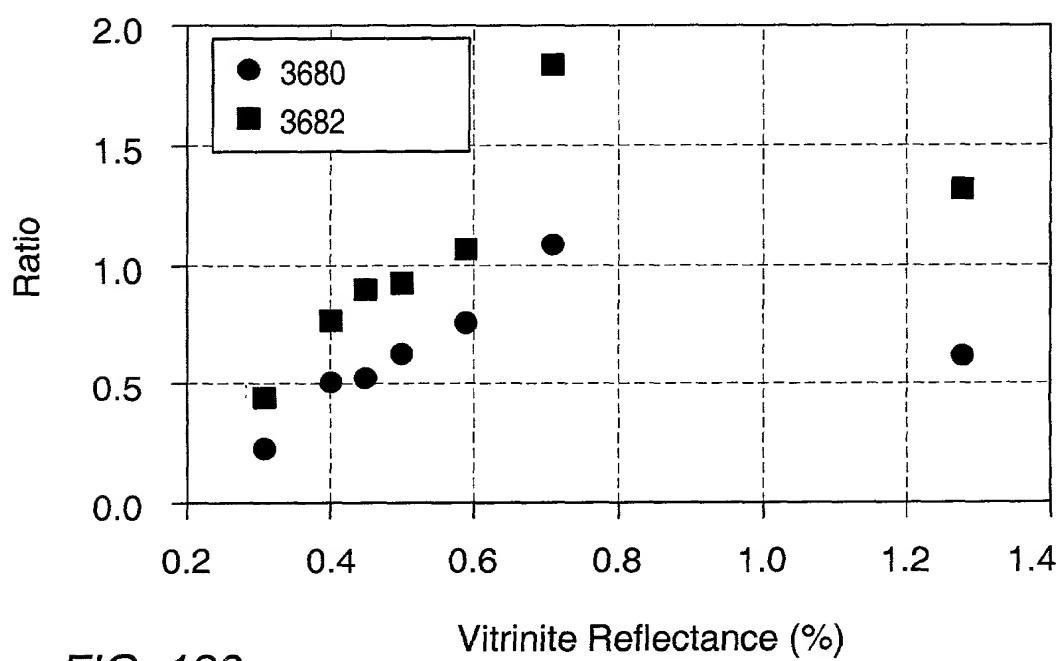


FIG. 120

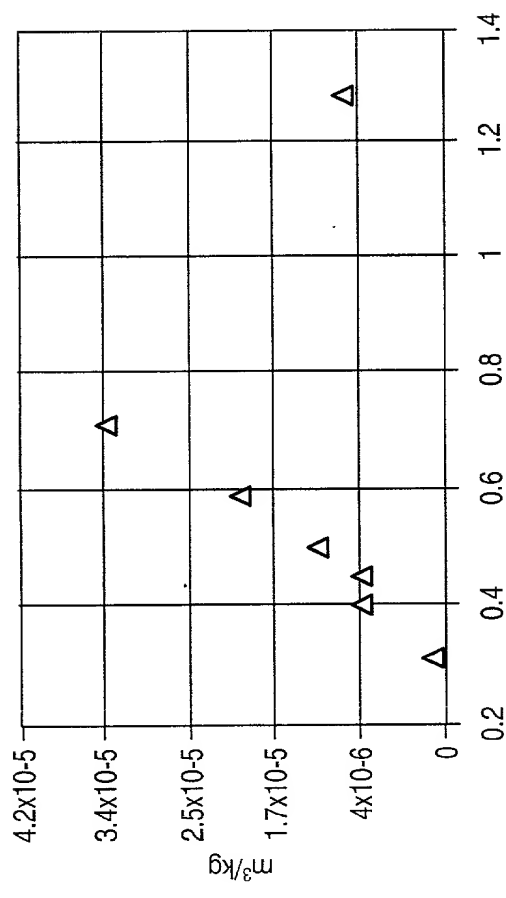


FIG. 121

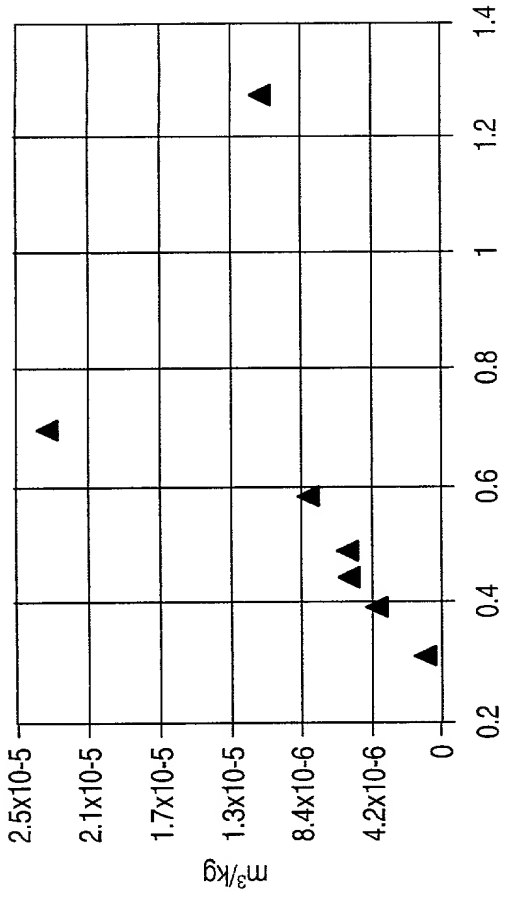


FIG. 122

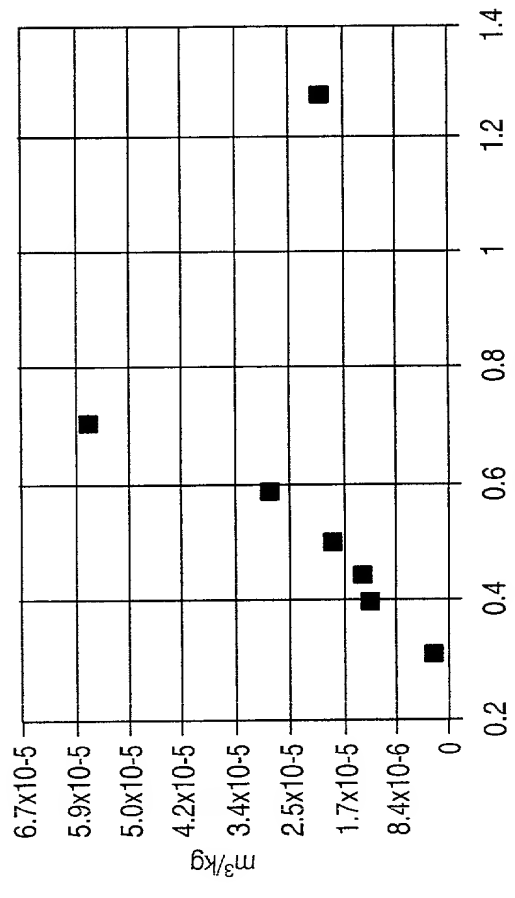


FIG. 123

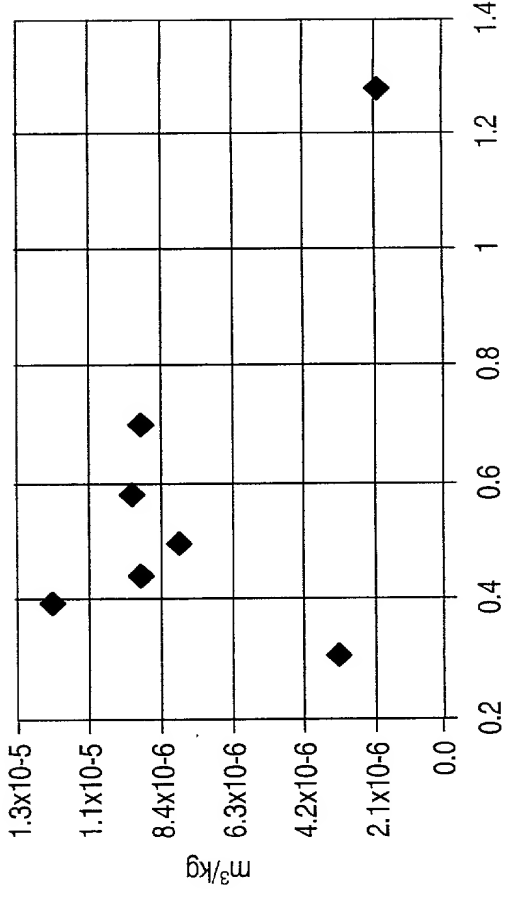


FIG. 124

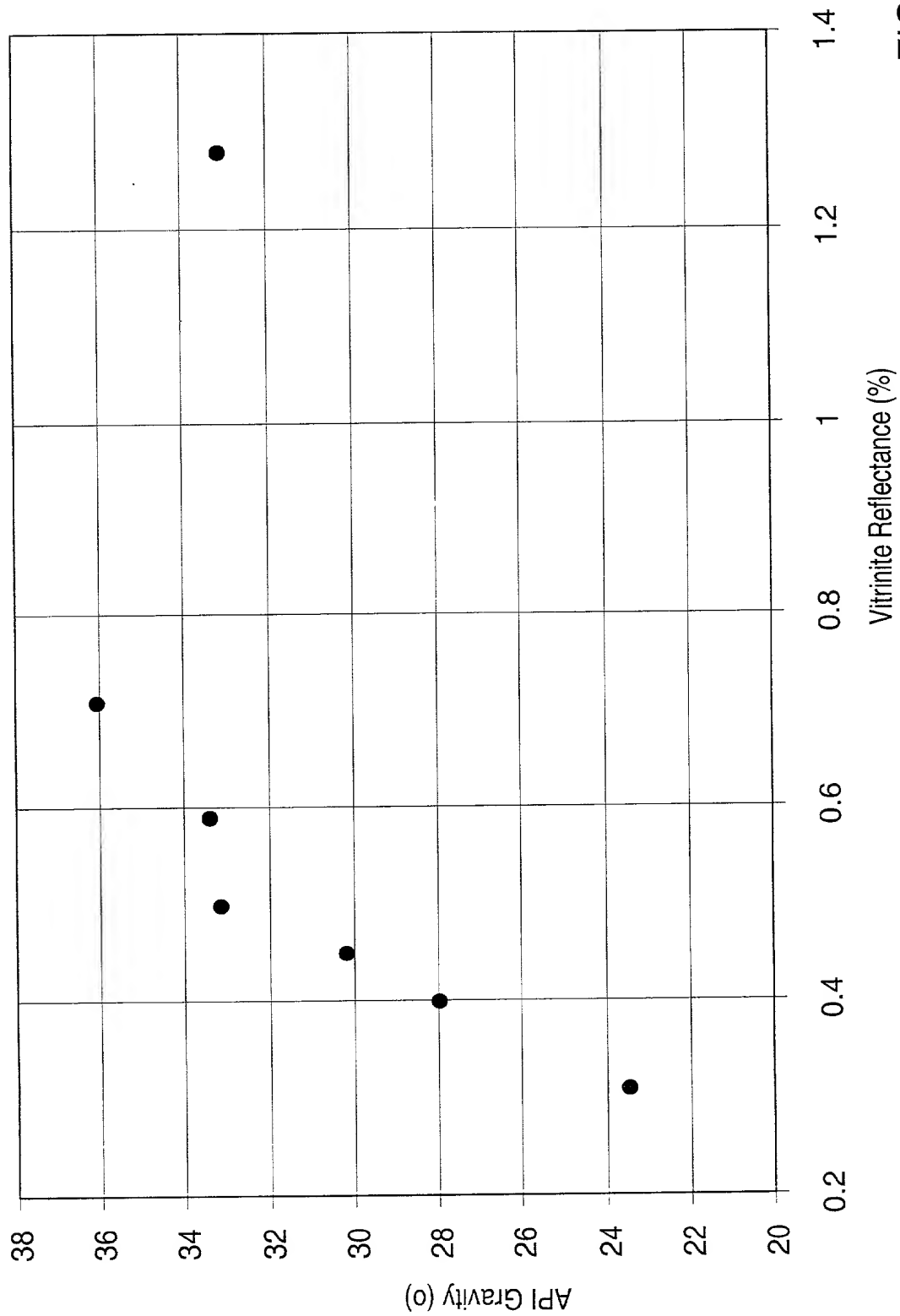
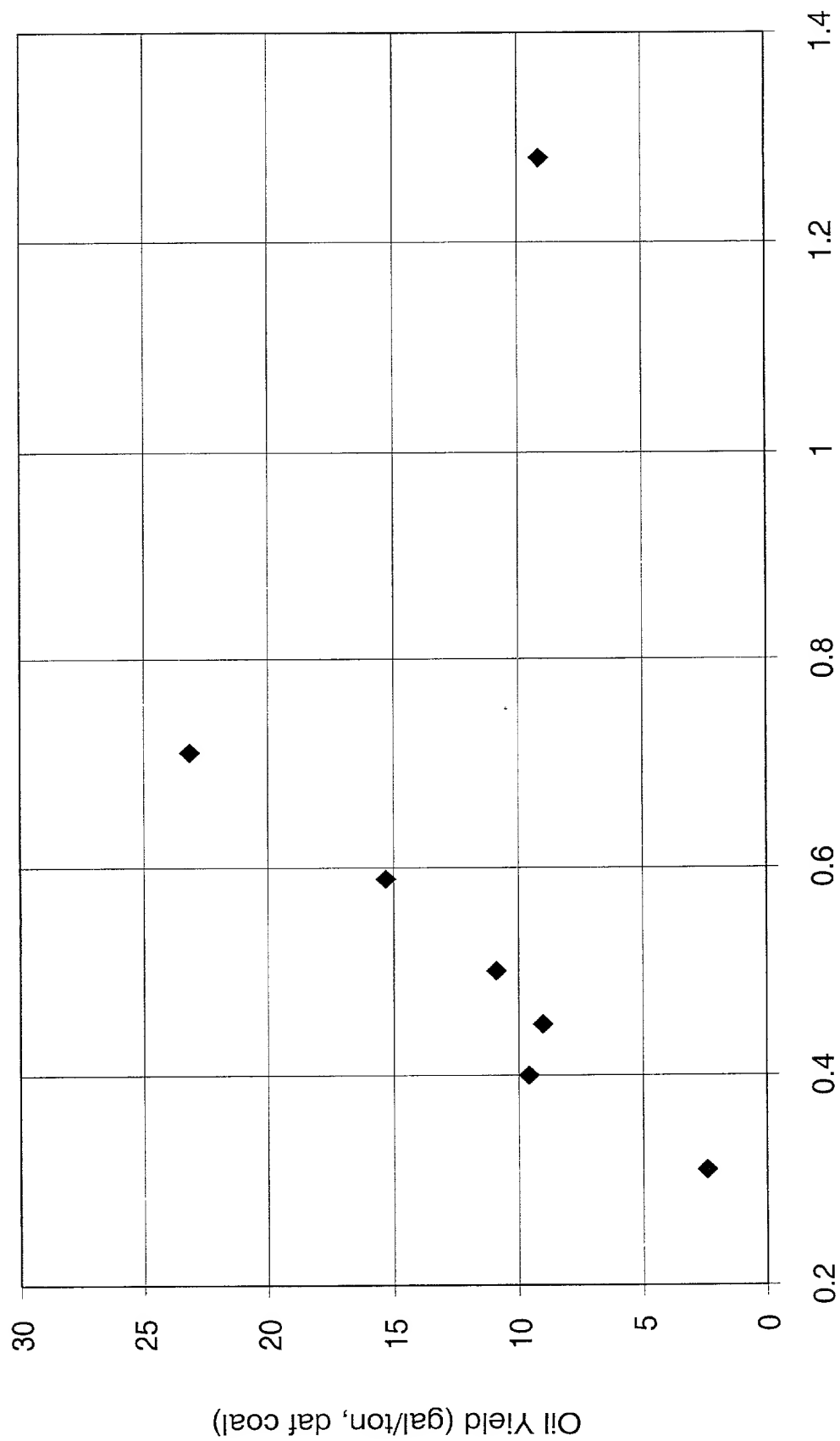


FIG. 125



Vitrinite Reflectance (%)

FIG. 126

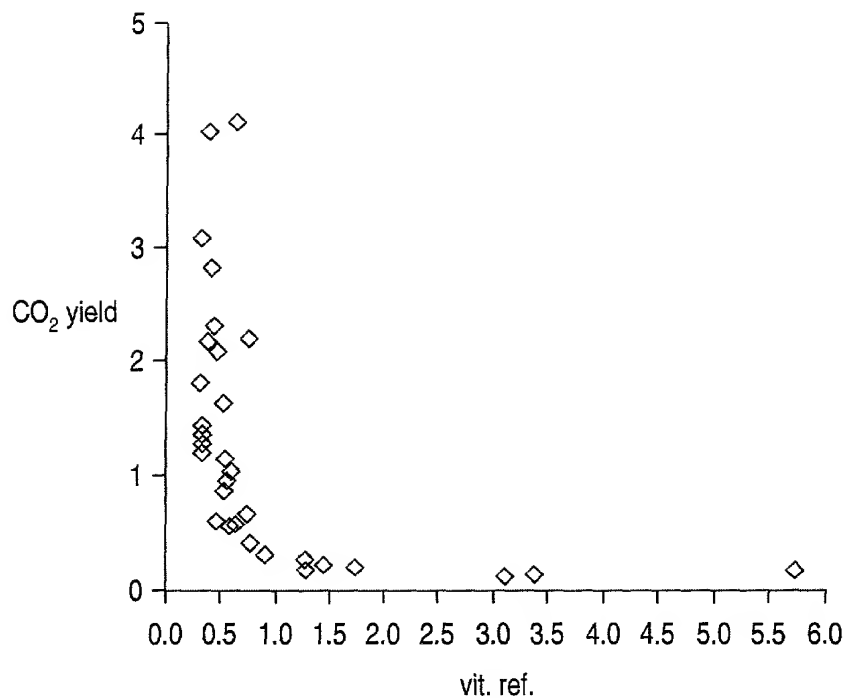


FIG. 127

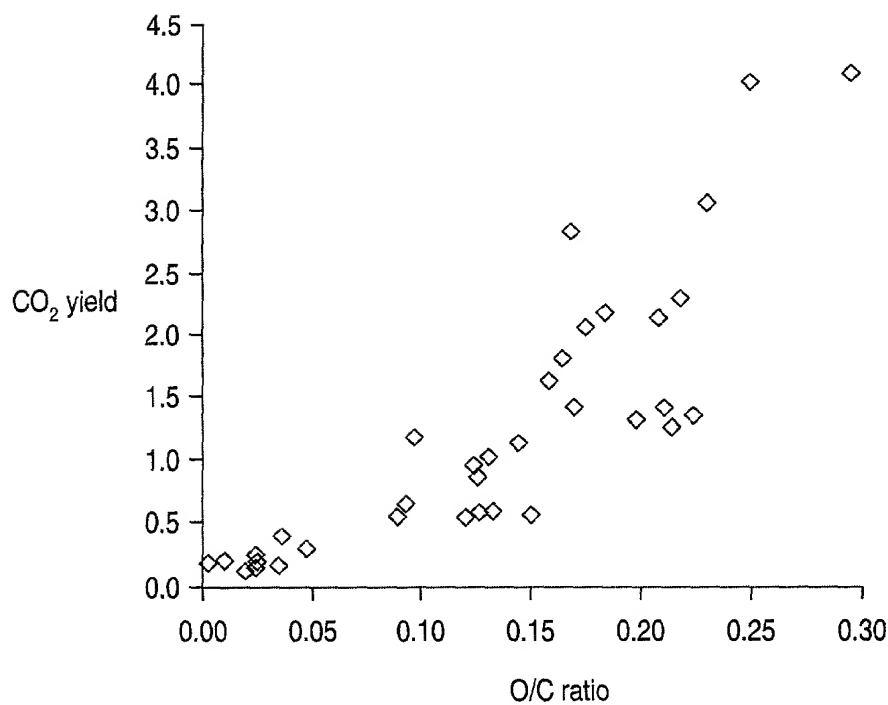


FIG. 128

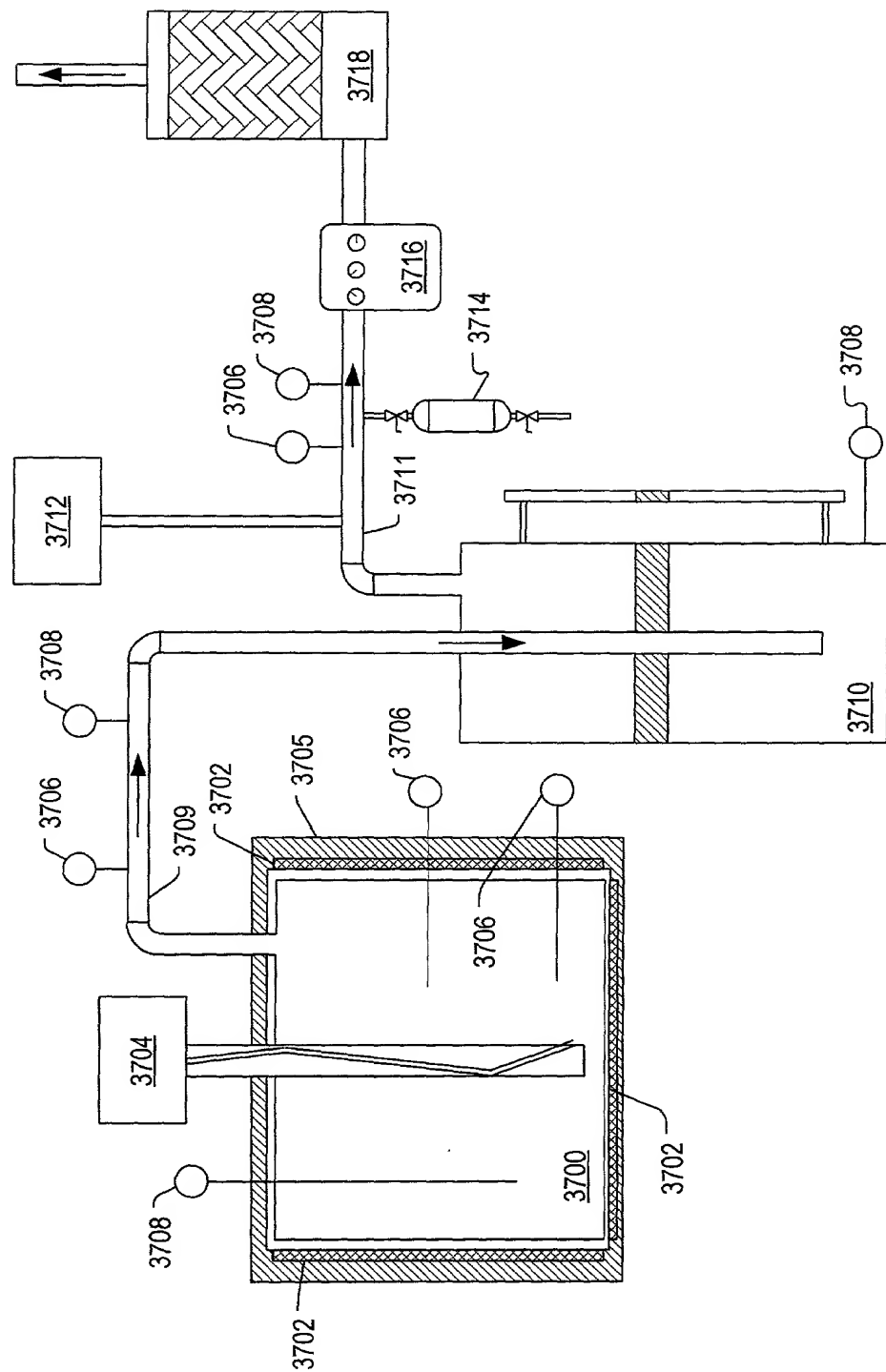


FIG. 129

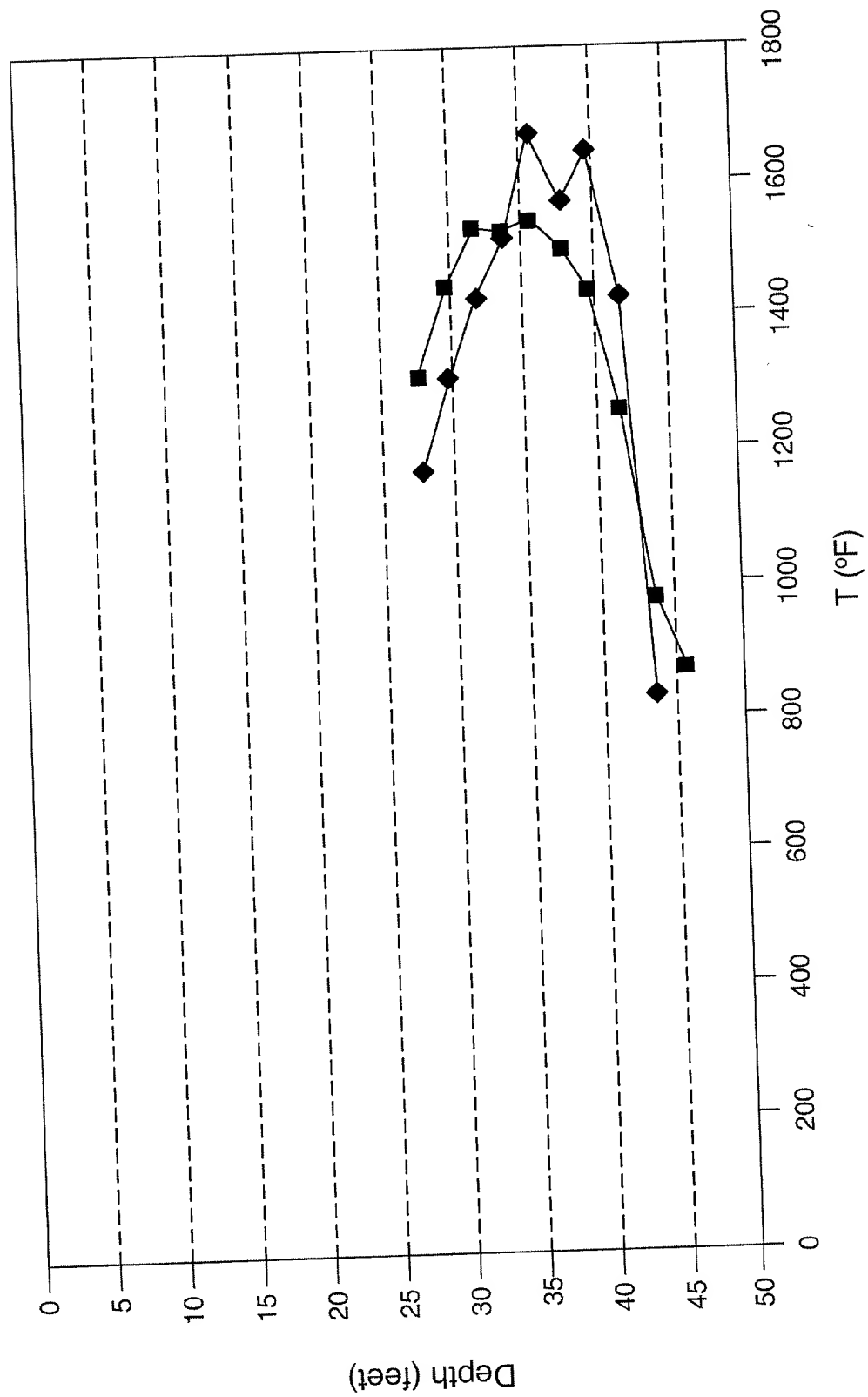


FIG. 130

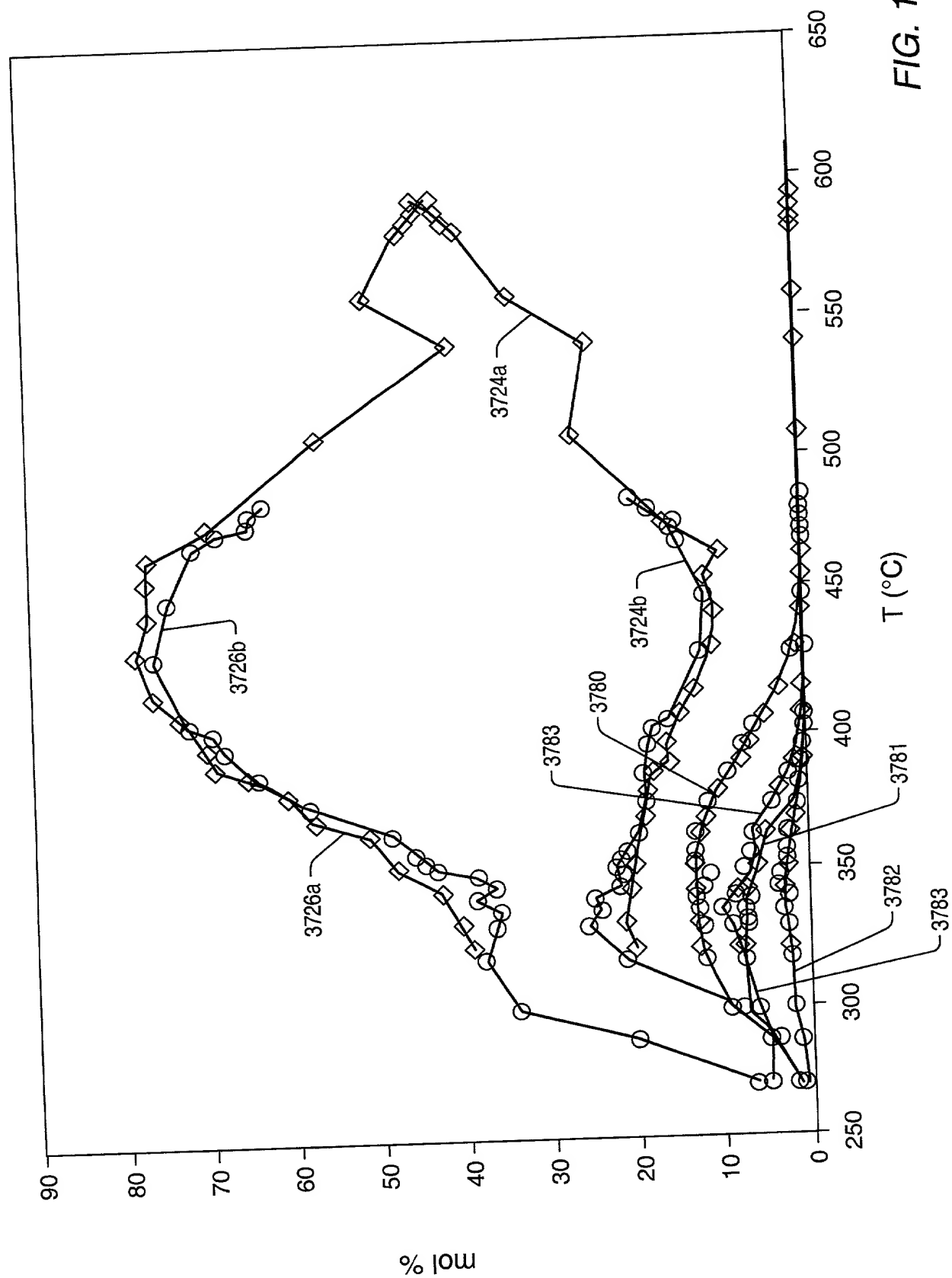


FIG. 131

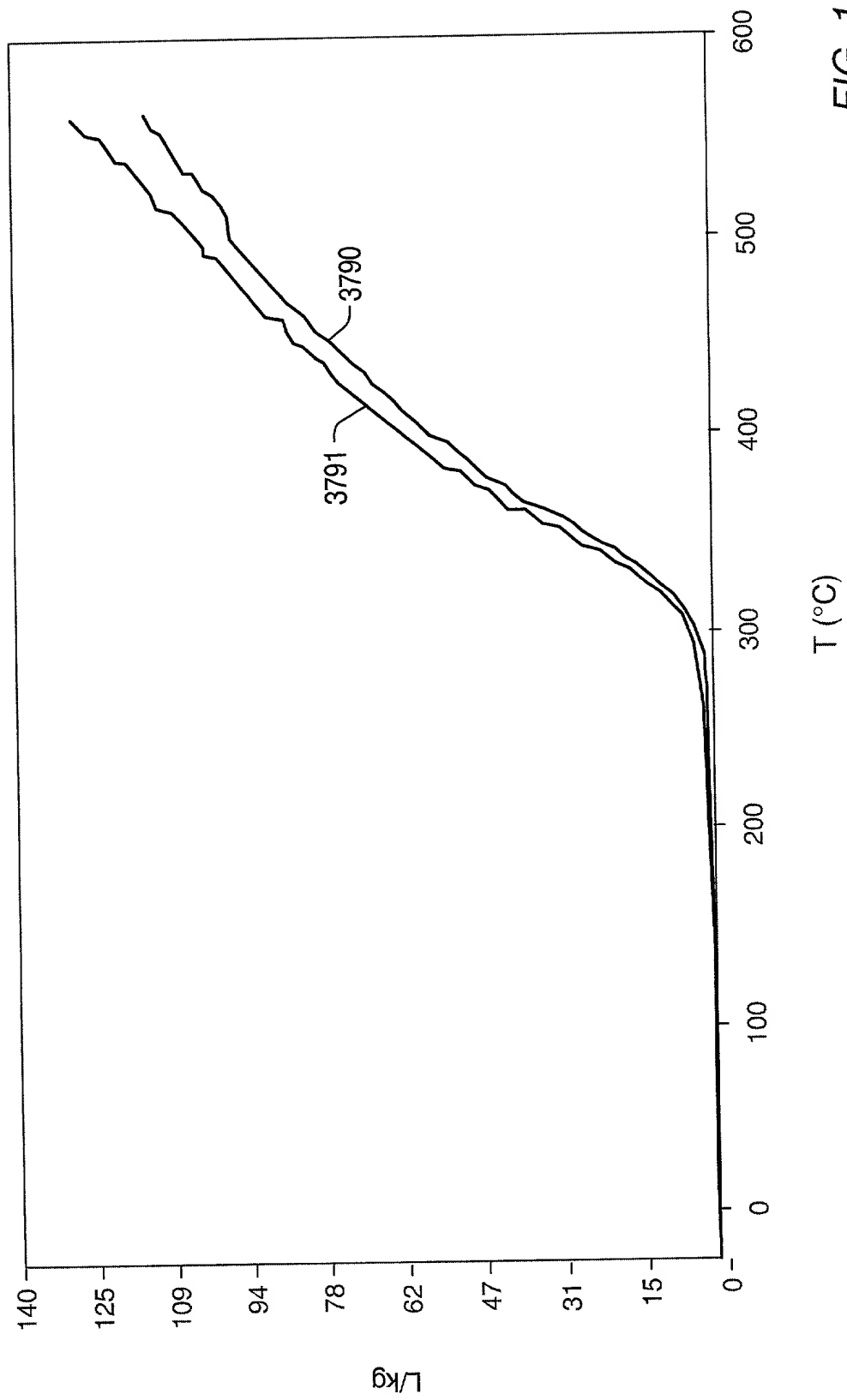


FIG. 132

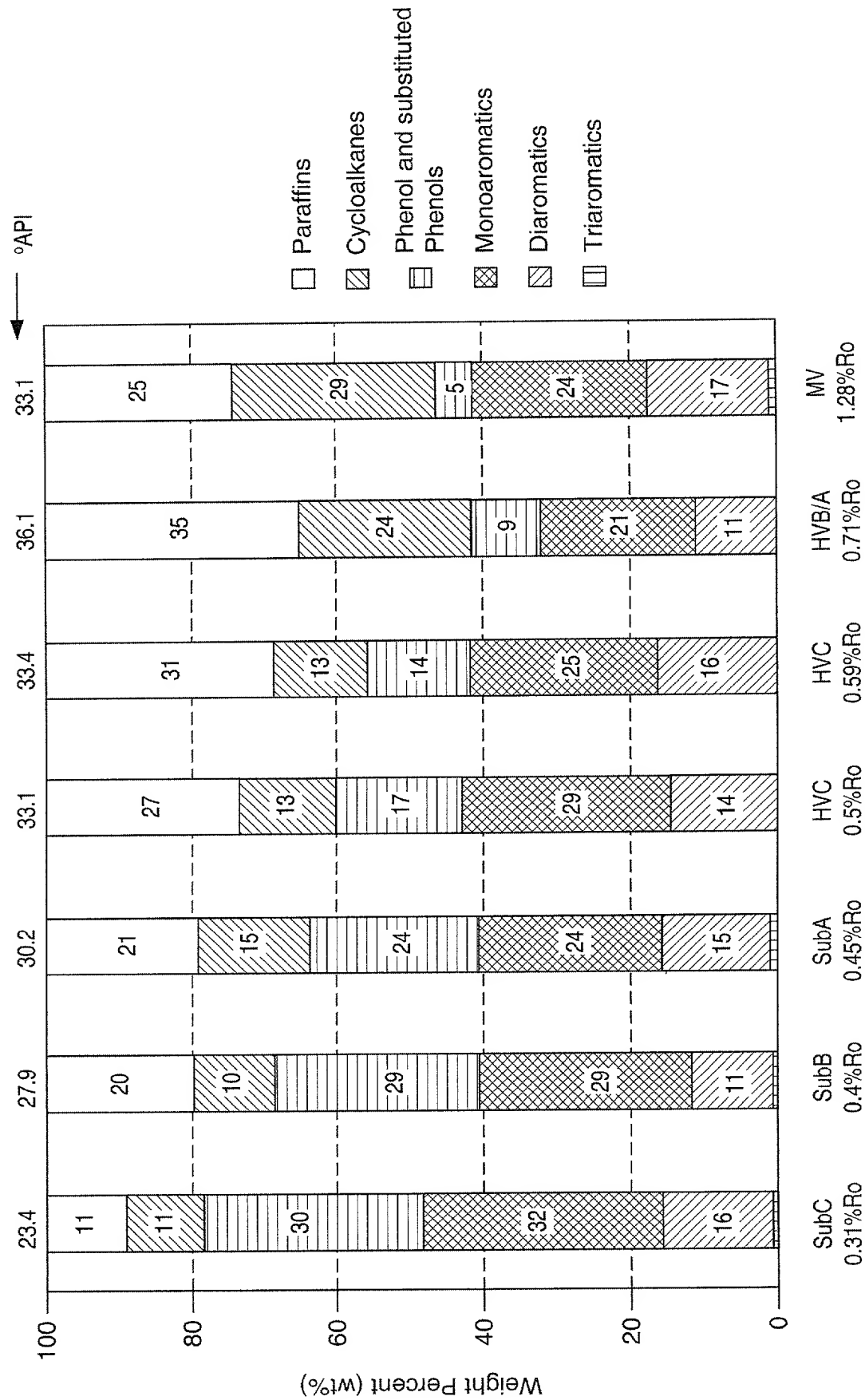


FIG. 134

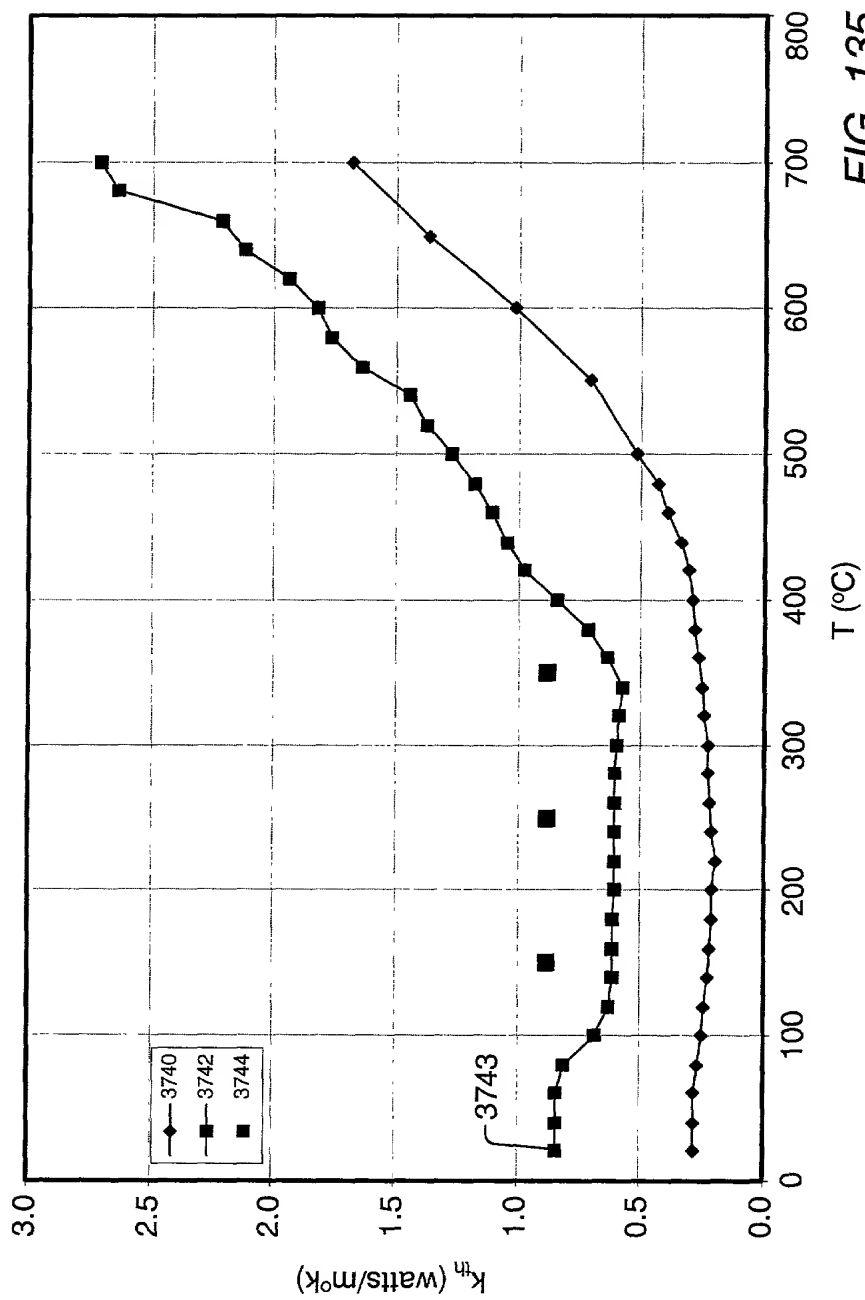


FIG. 135

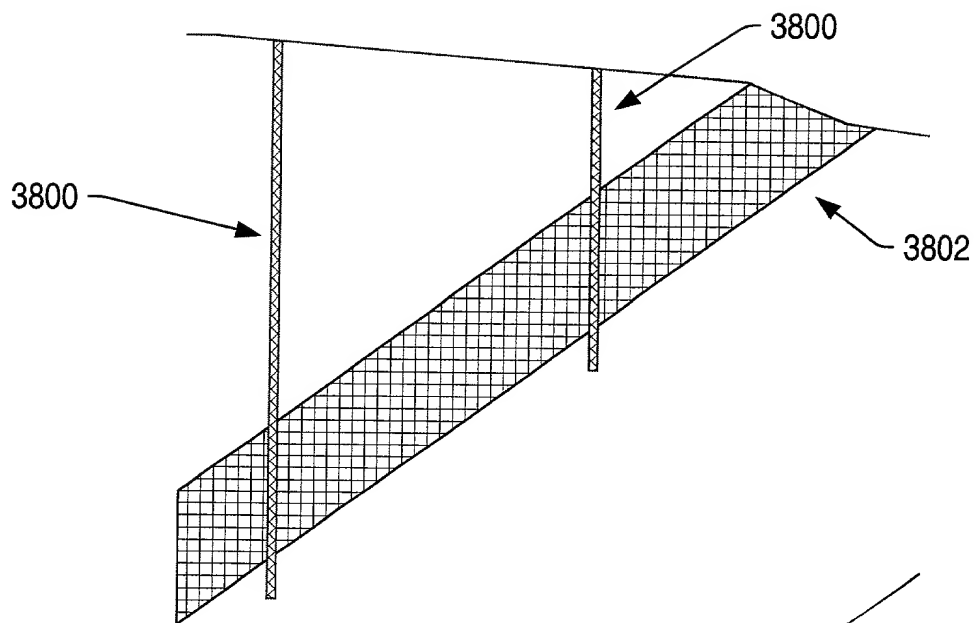


FIG. 136

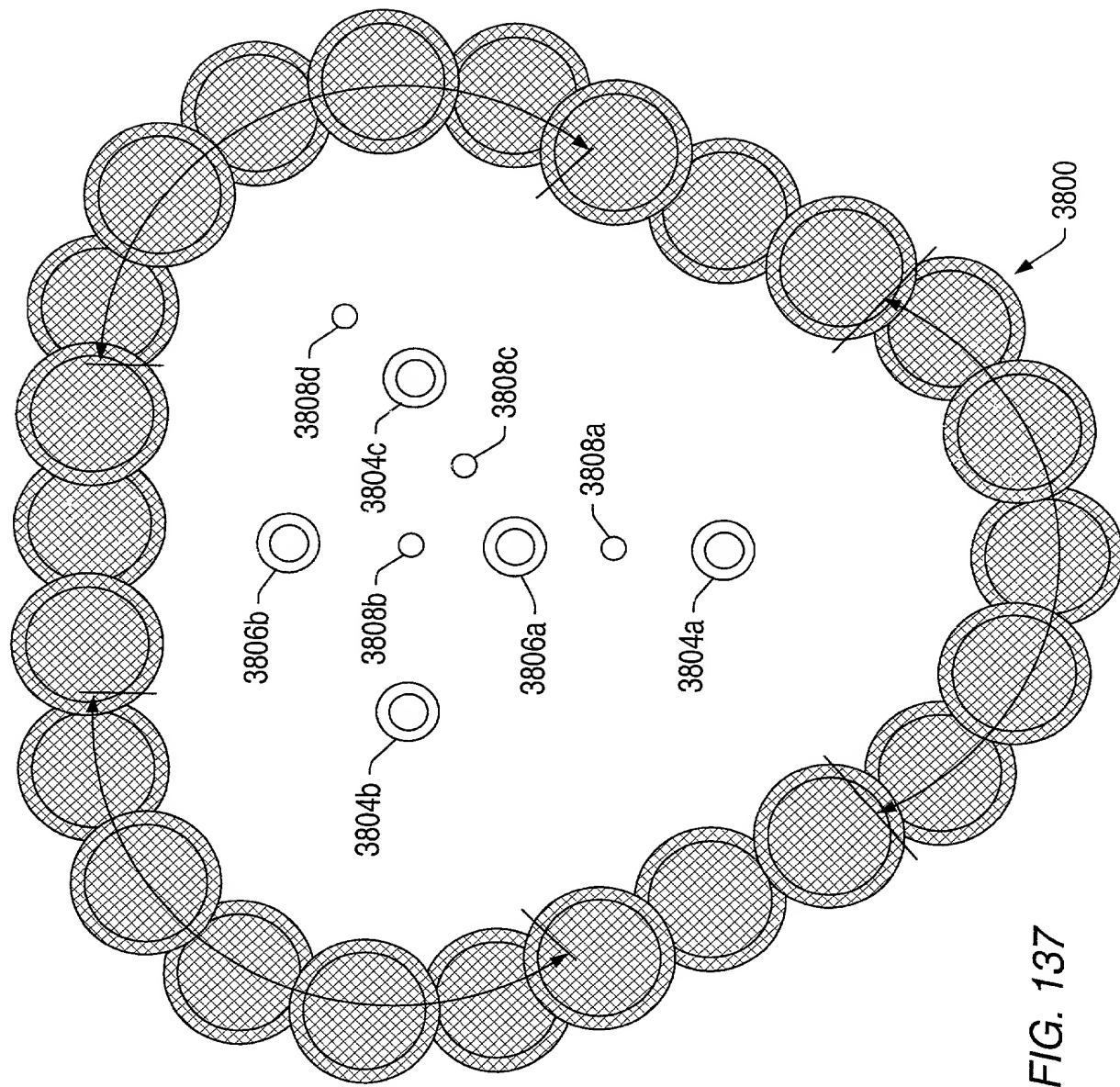


FIG. 137

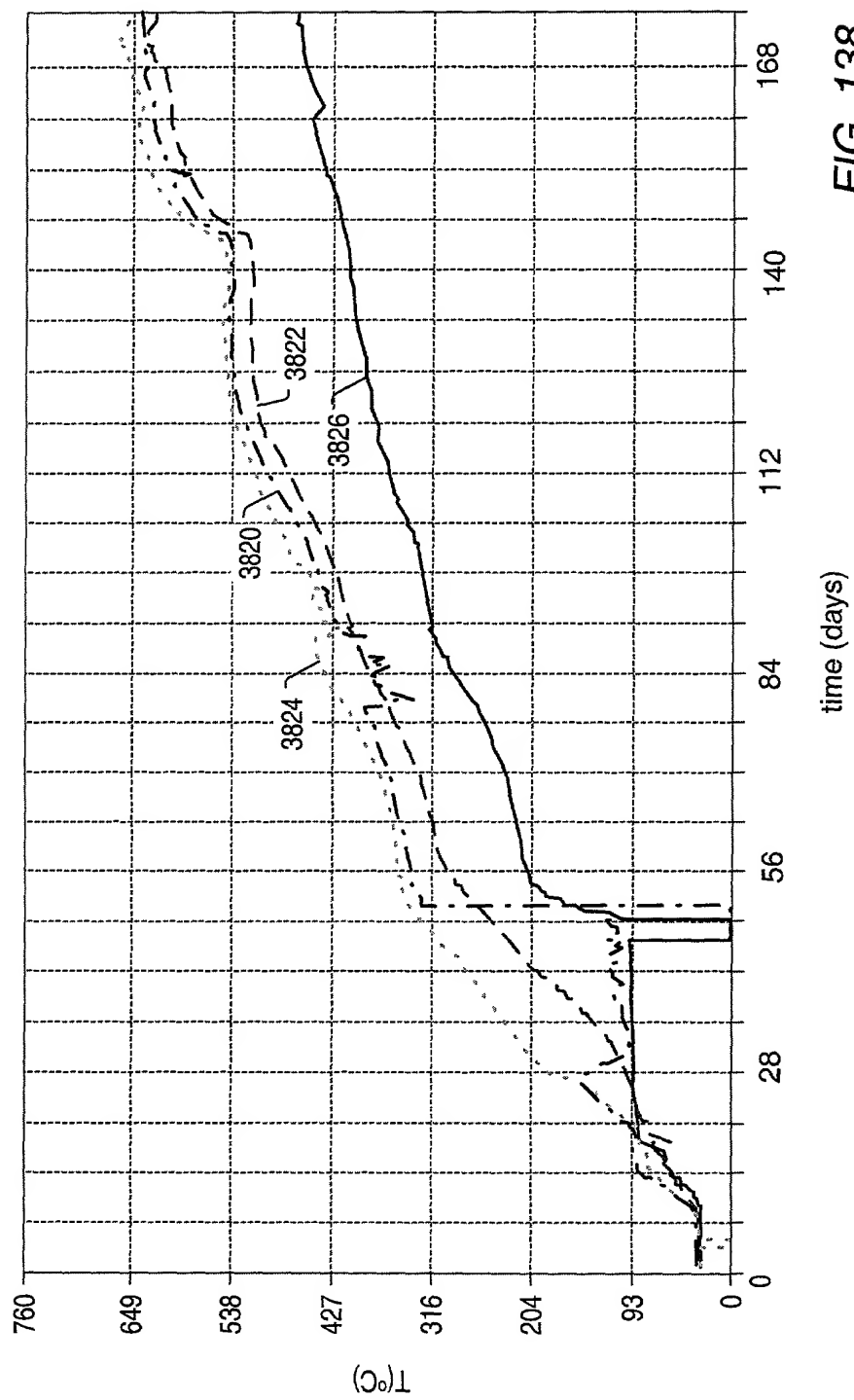
[illegible]

FIG. 138

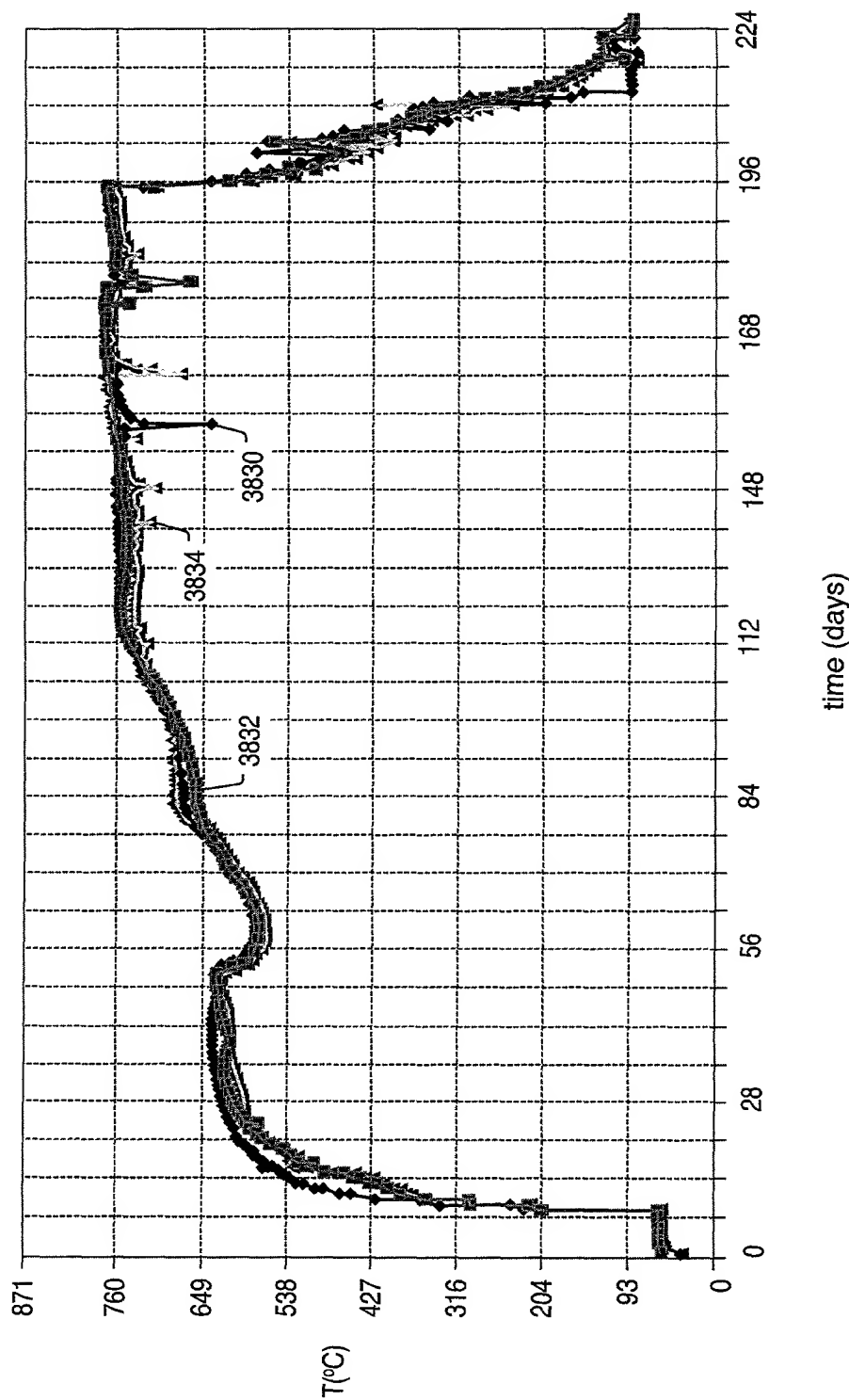


FIG. 139

FIG. 140

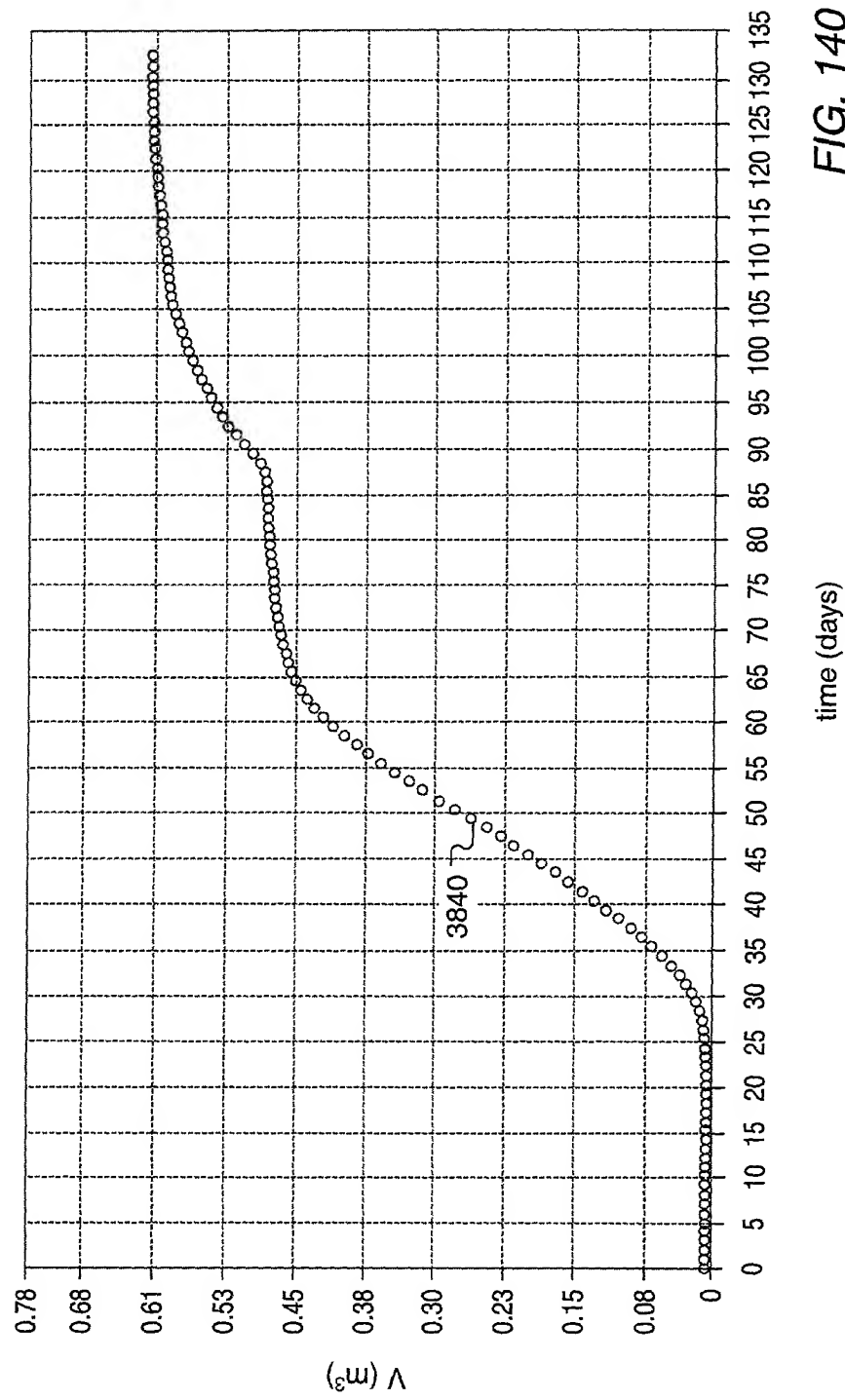


FIG. 140

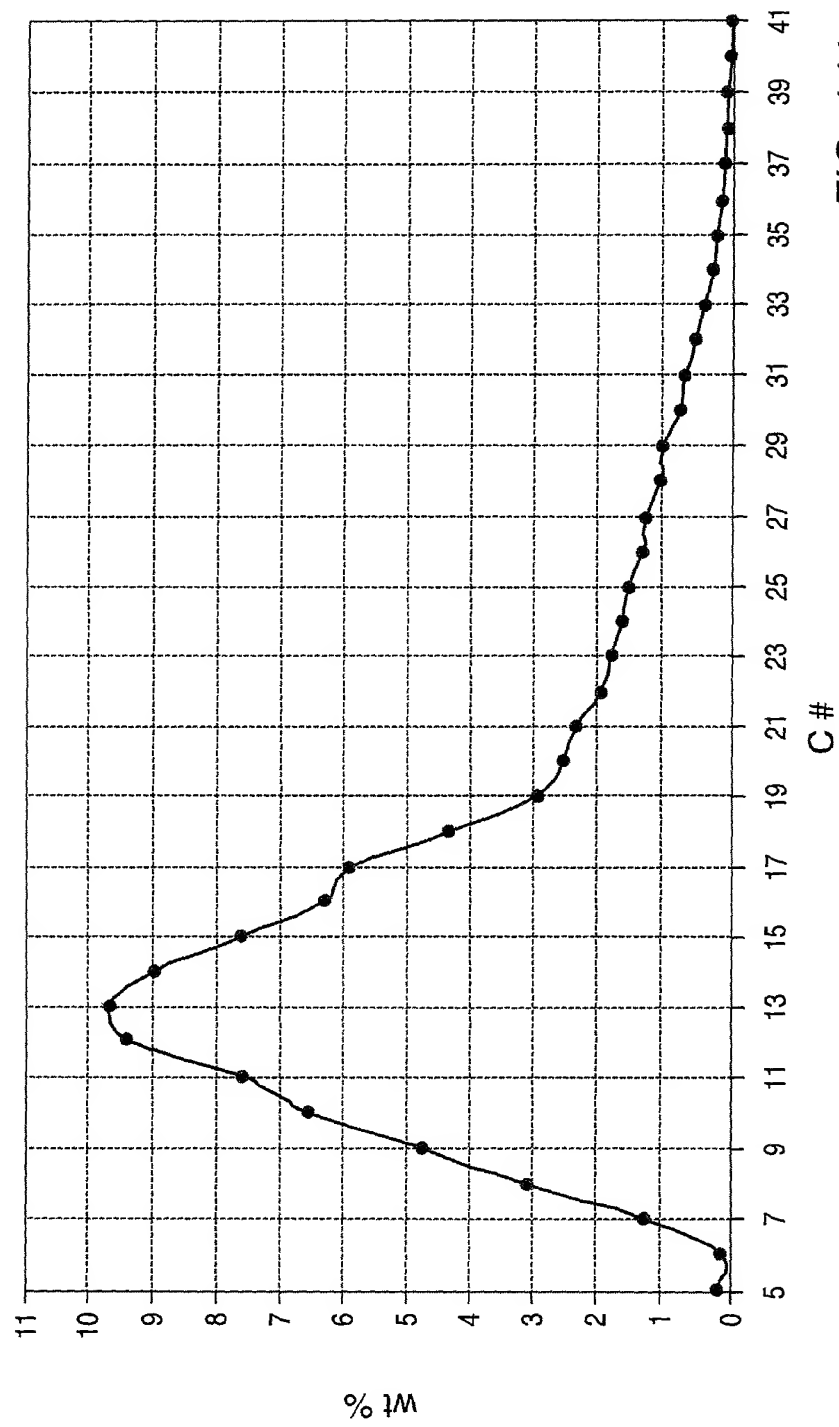


FIG. 141

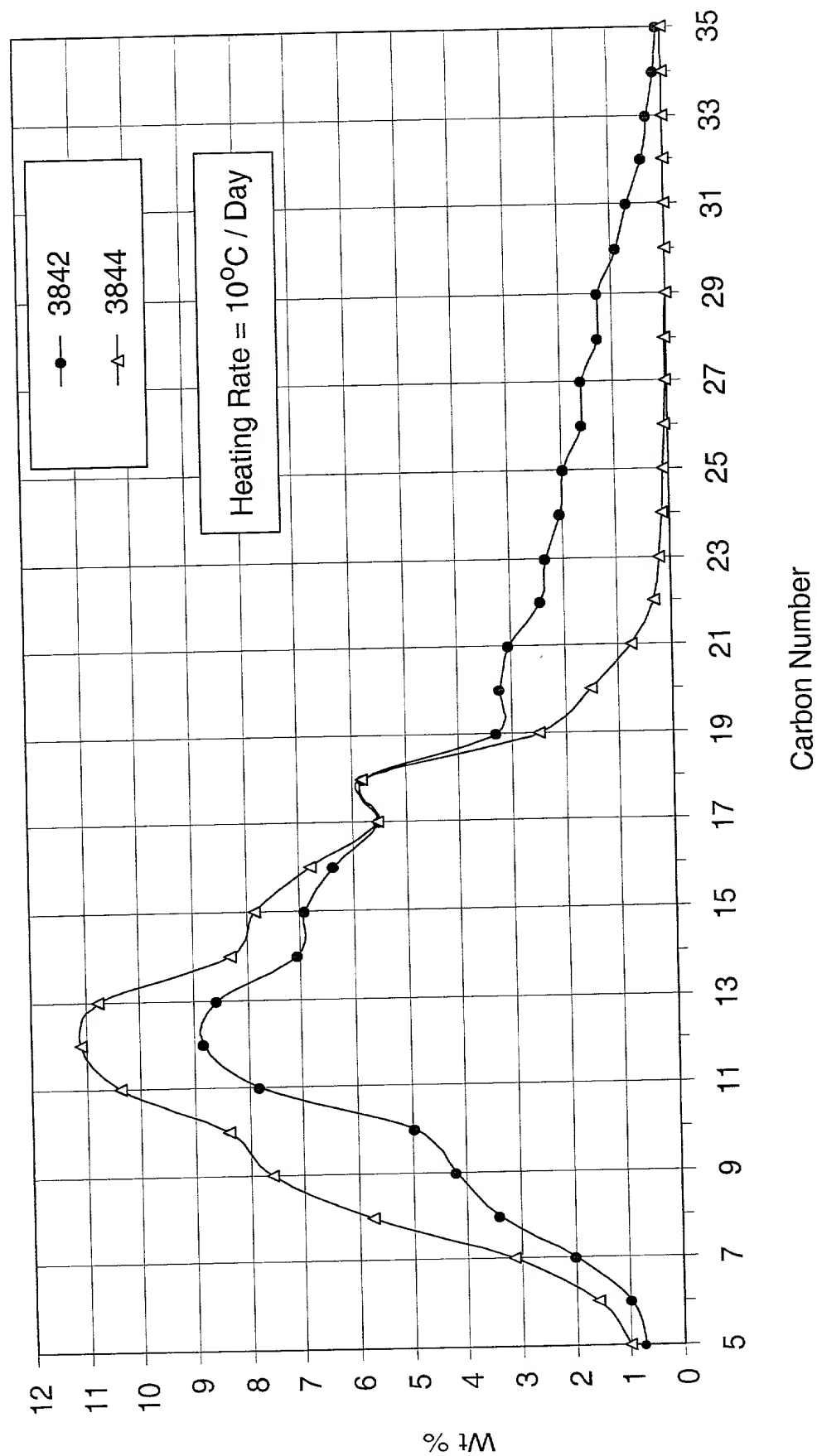


FIG. 142

TABLE 10 continued

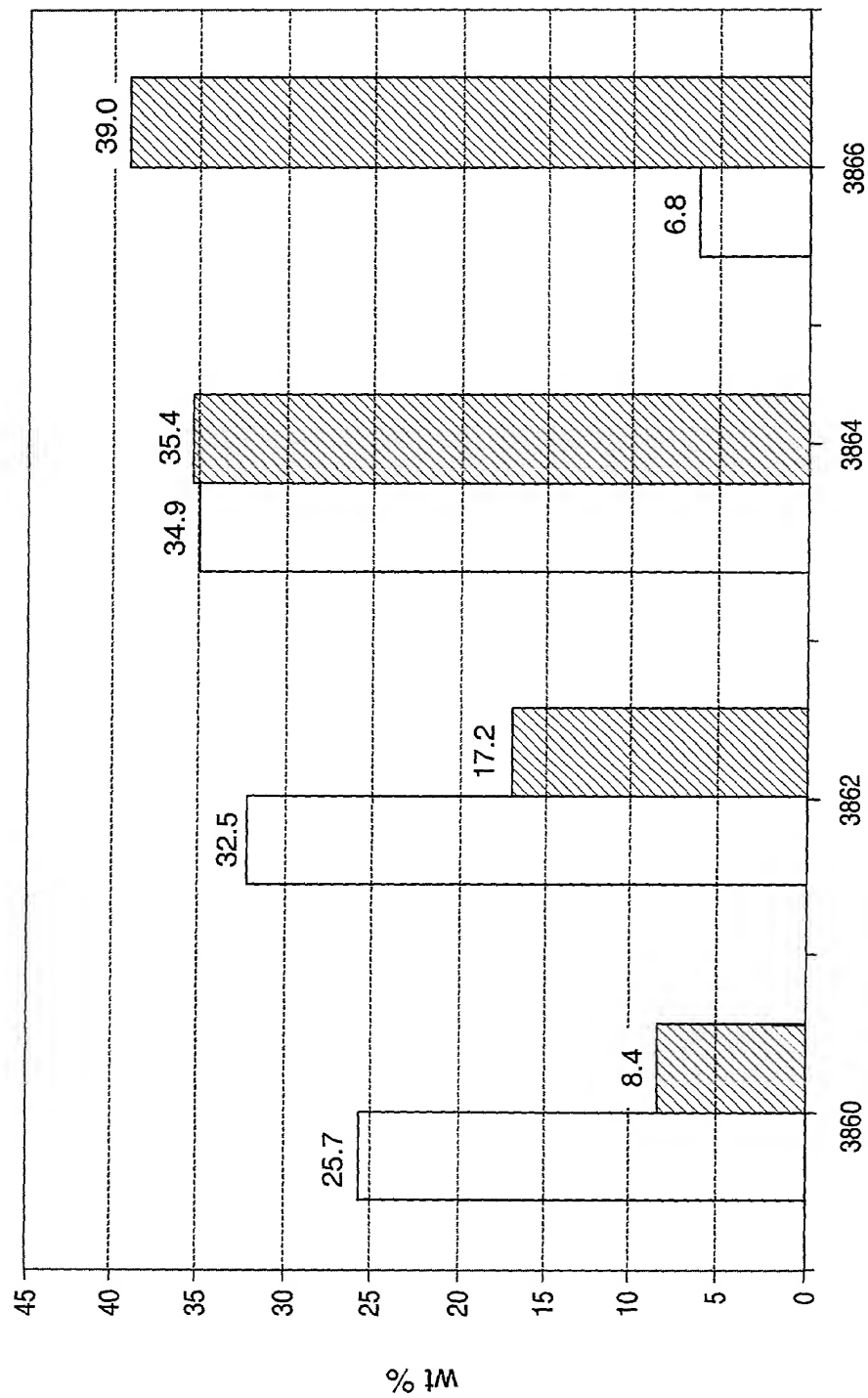


FIG. 143

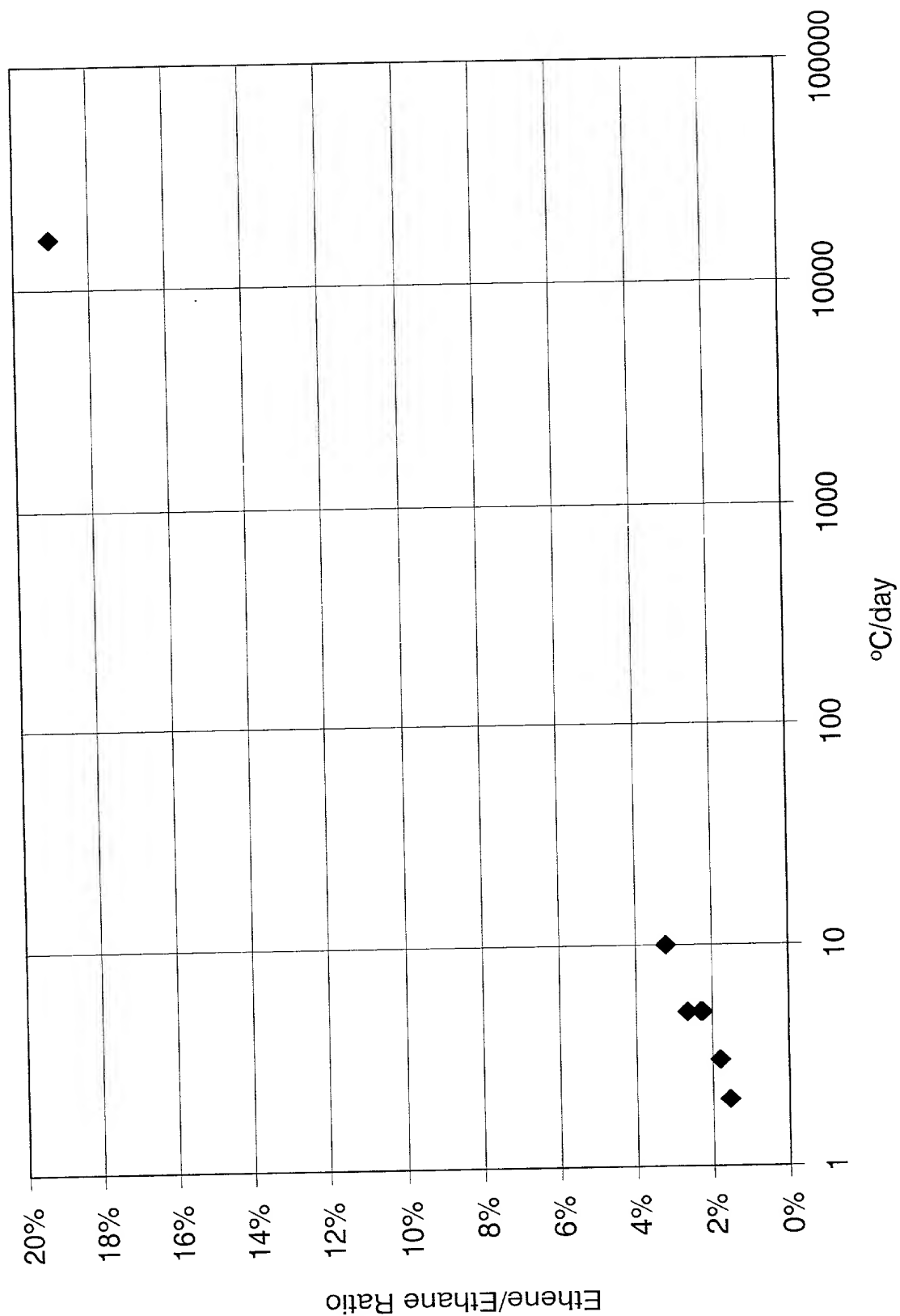


FIG. 144

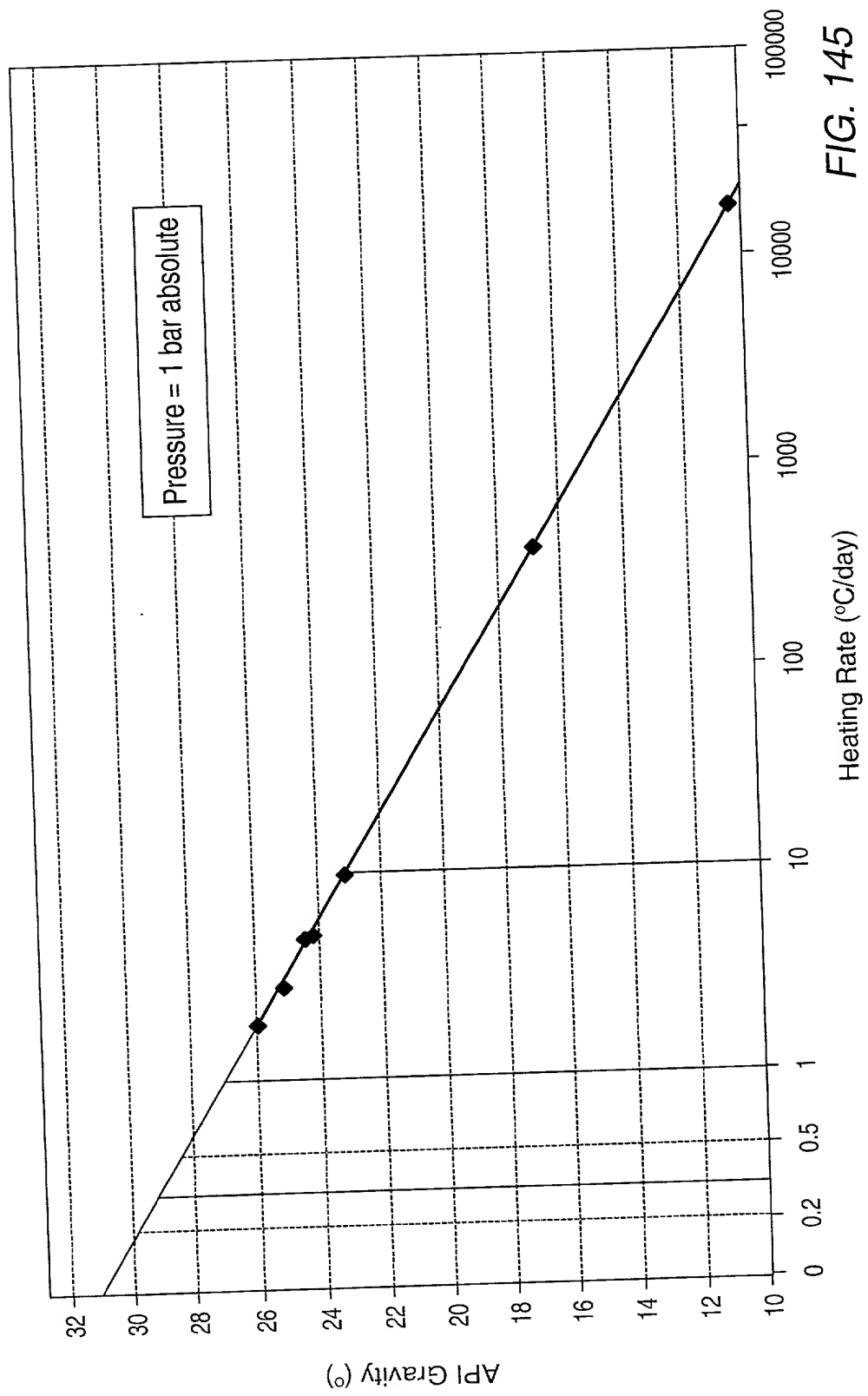


FIG. 145

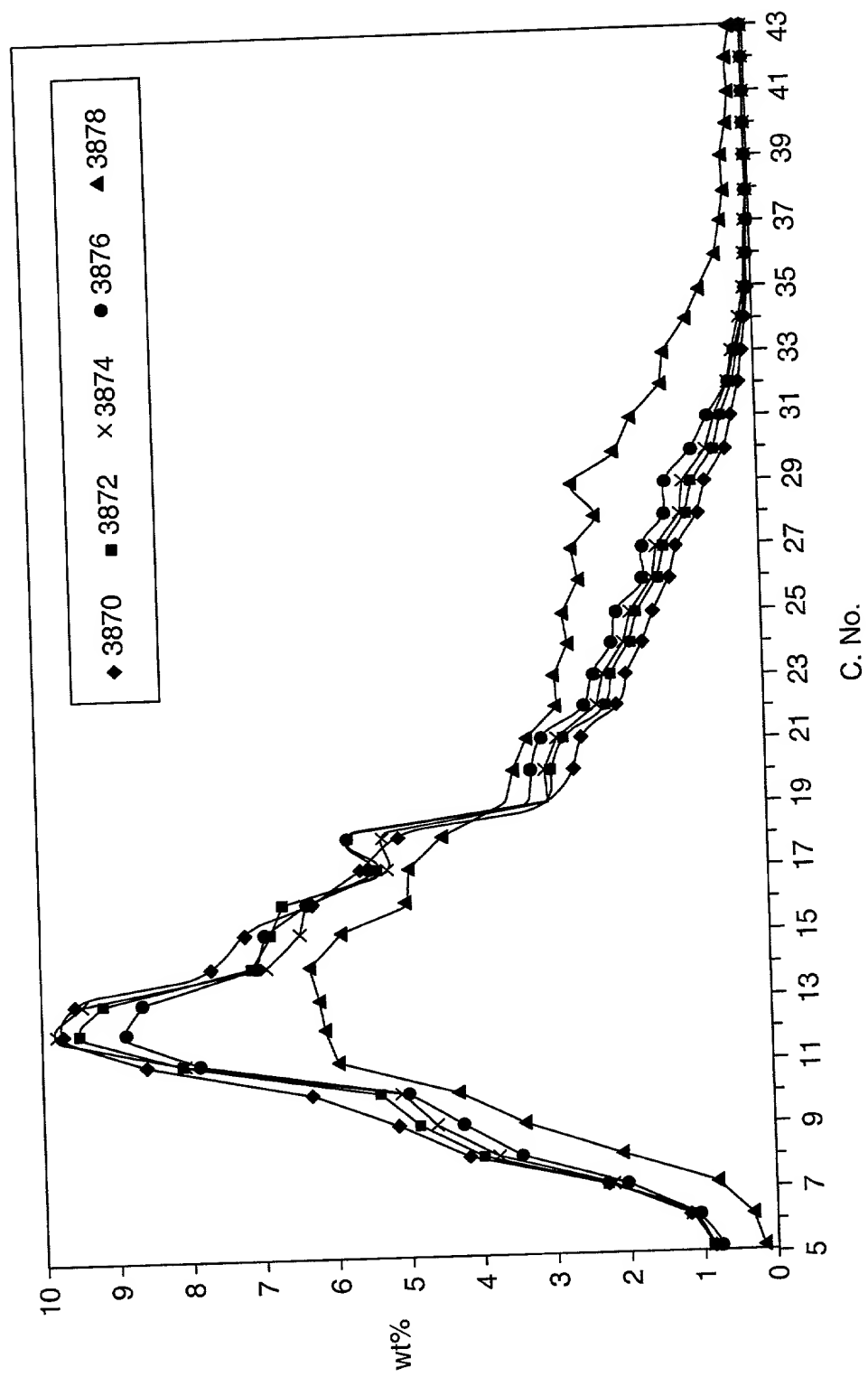
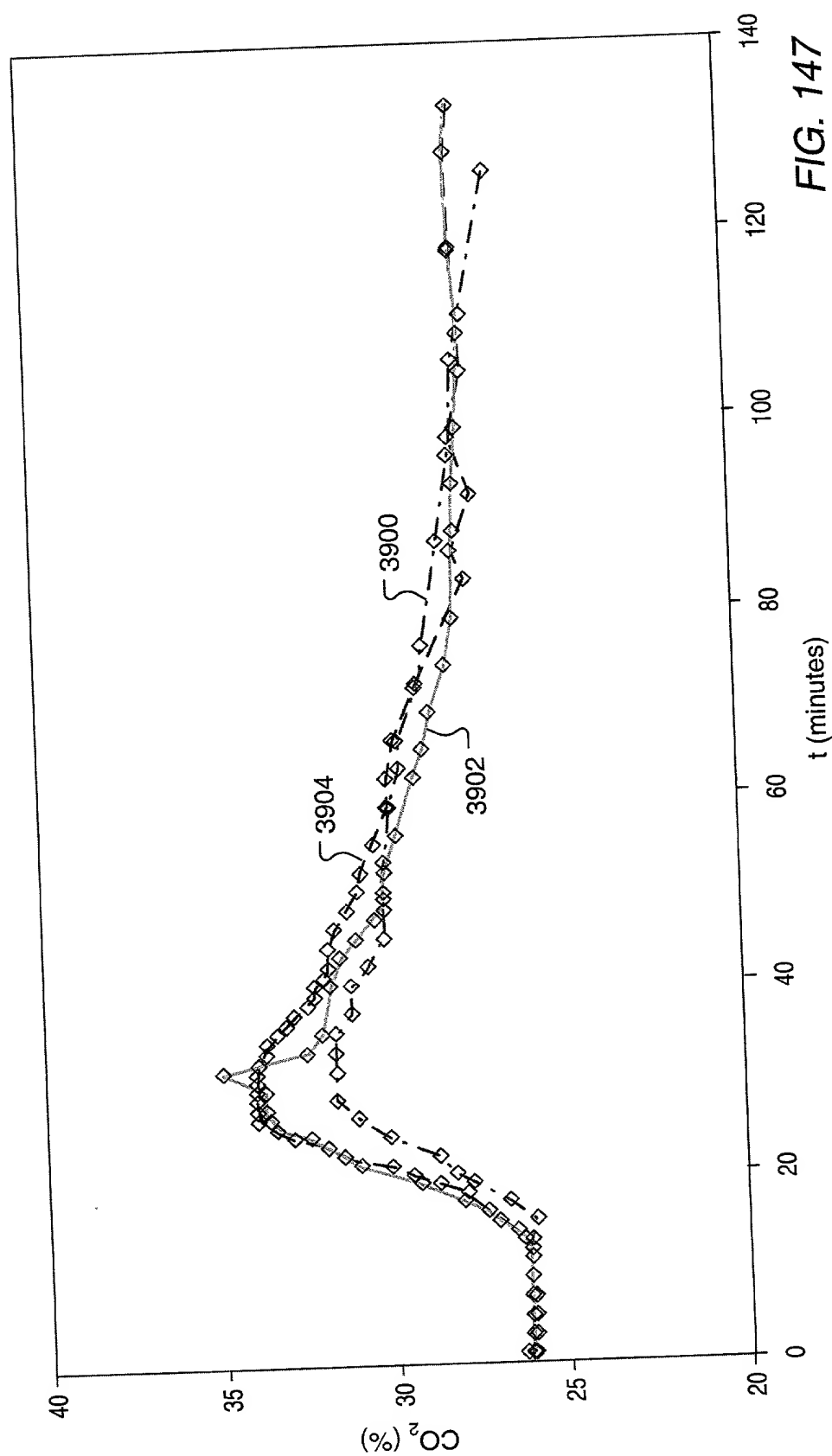


FIG. 146



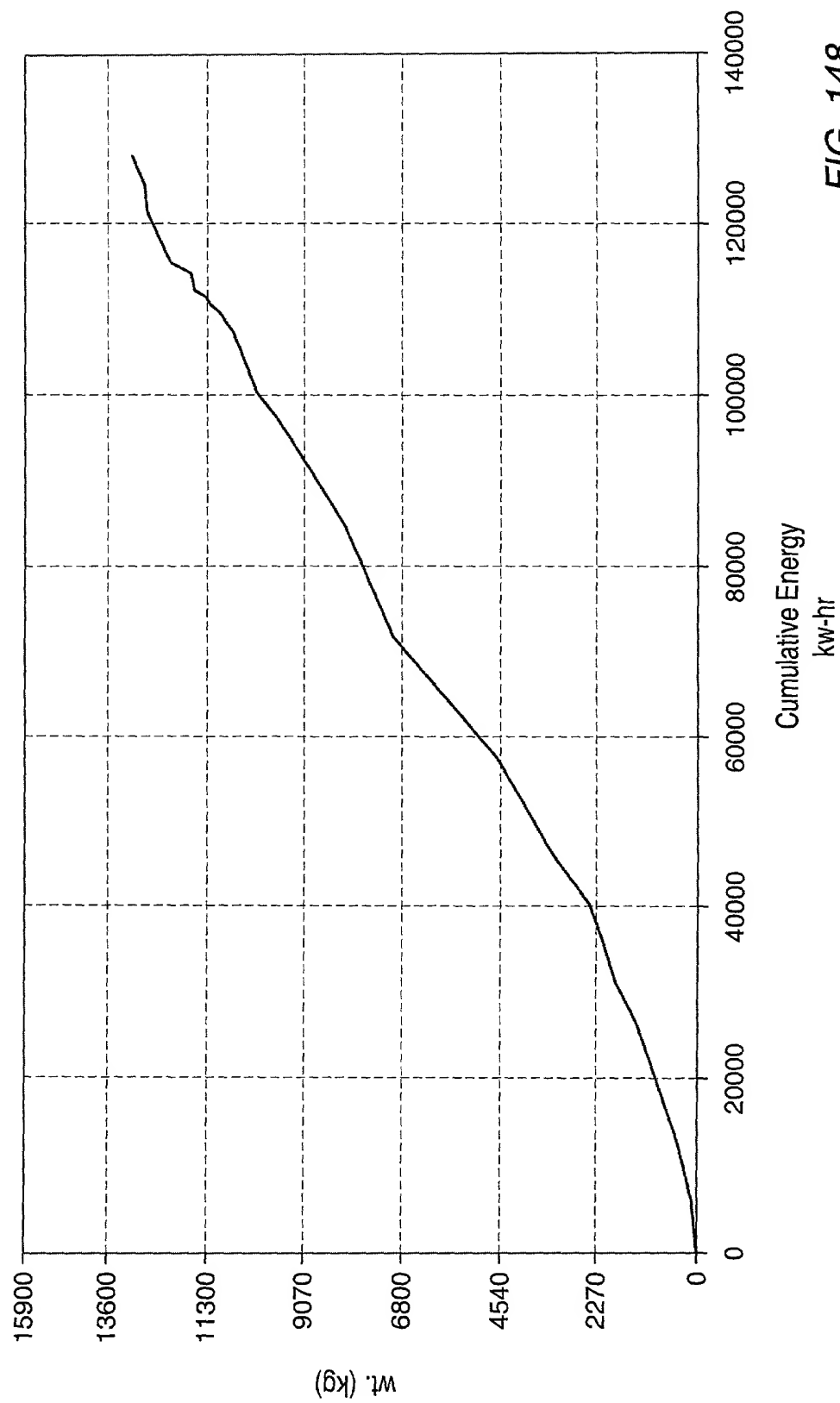


FIG. 148

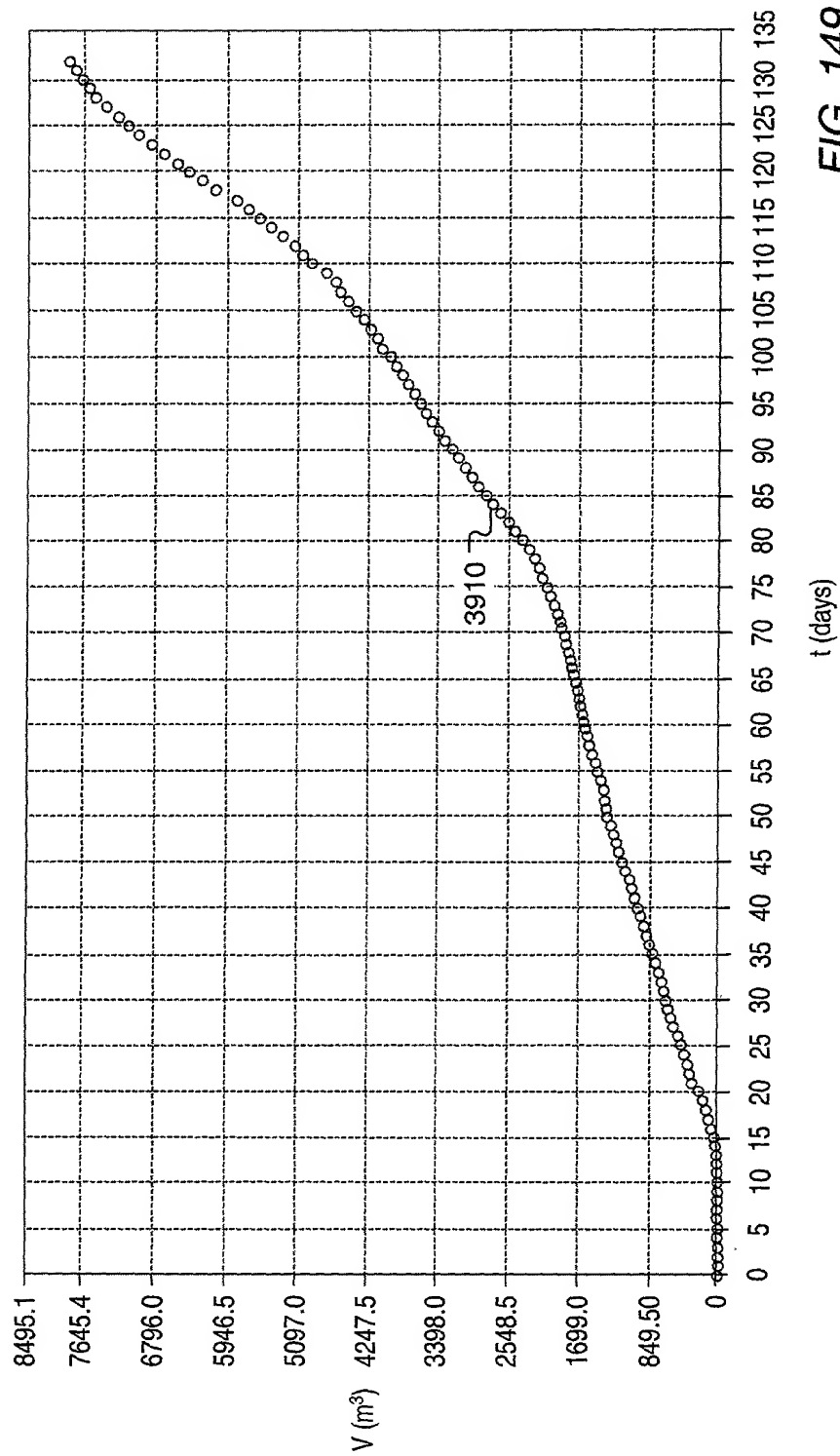


FIG. 149

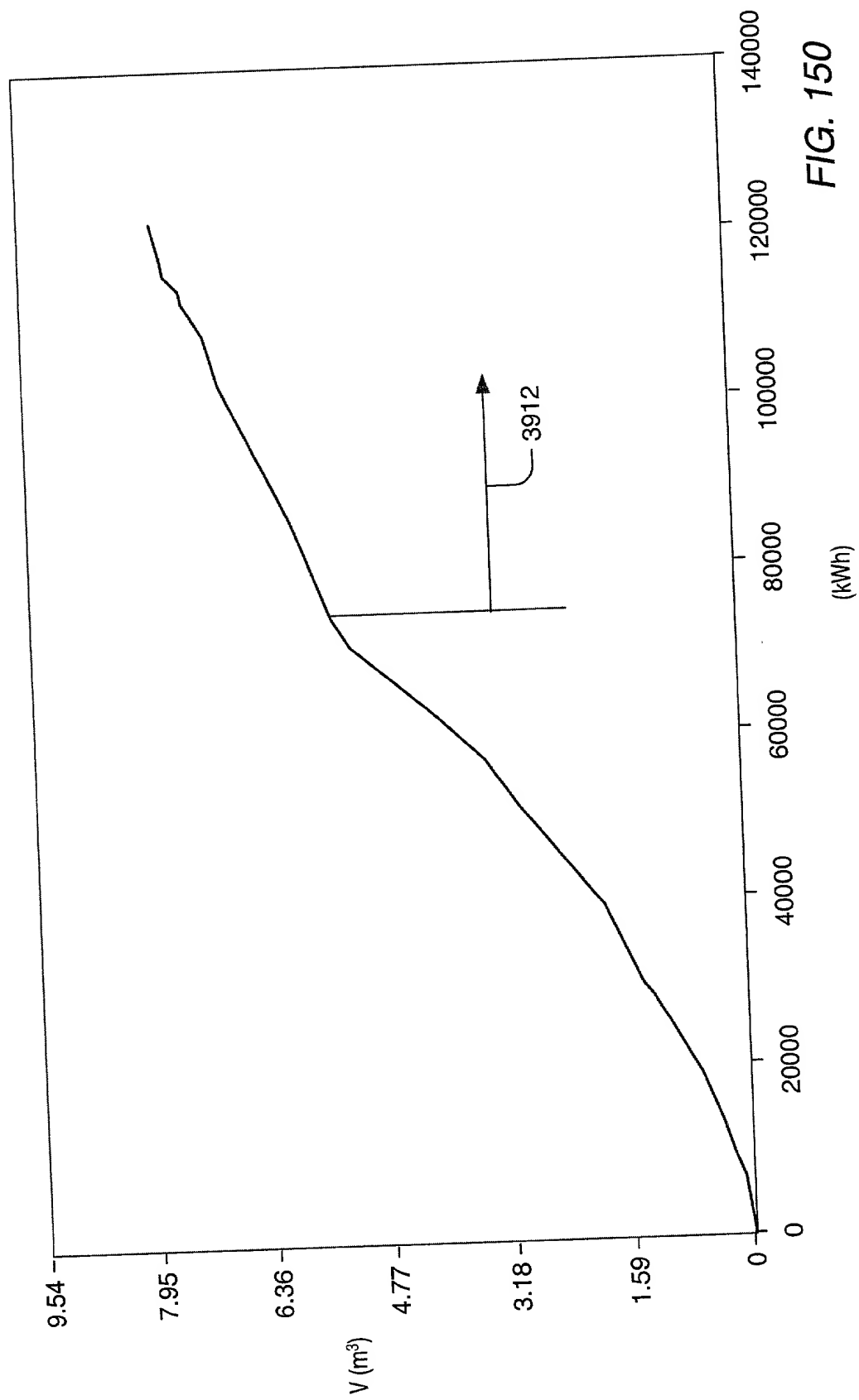


FIG. 150

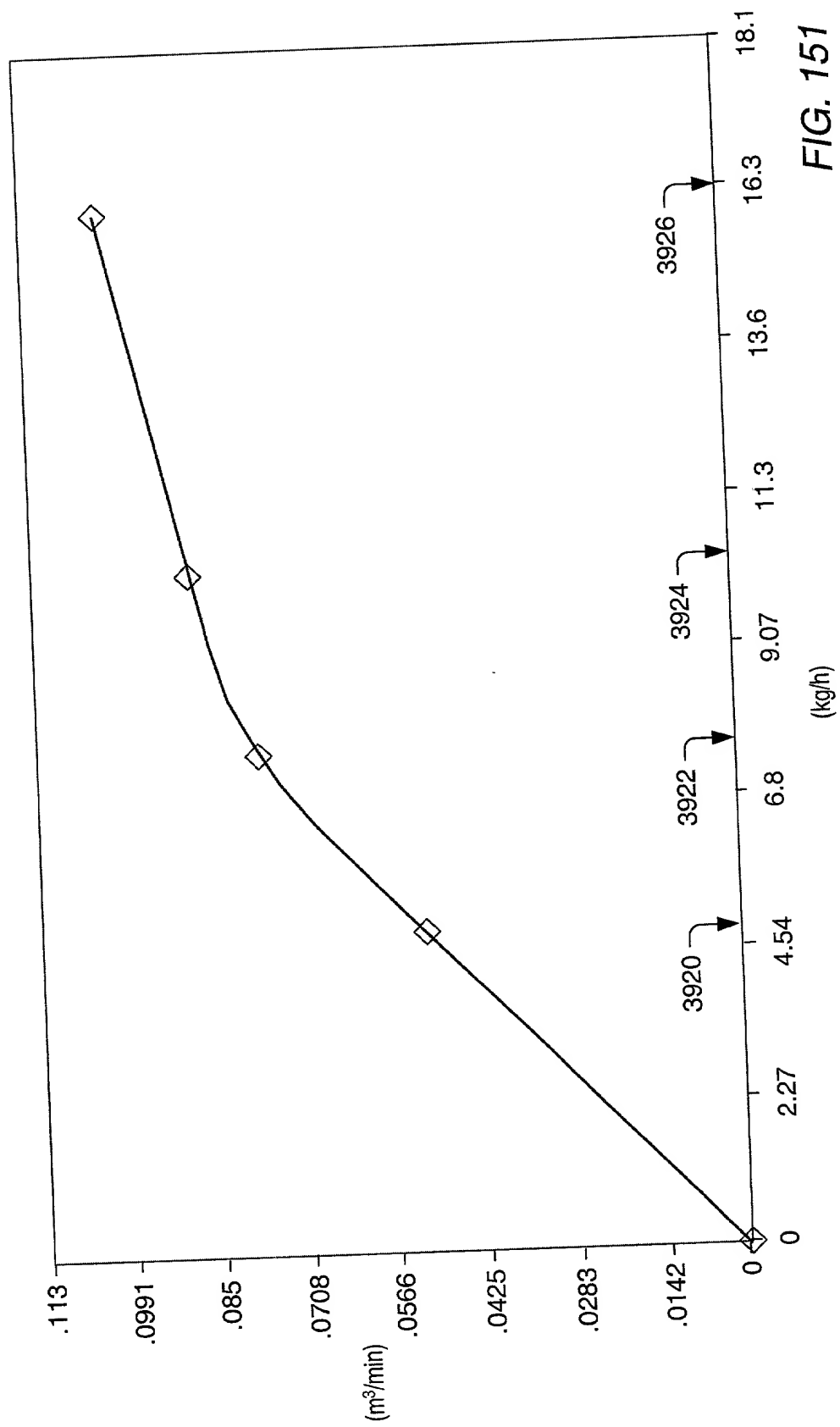


FIG. 151

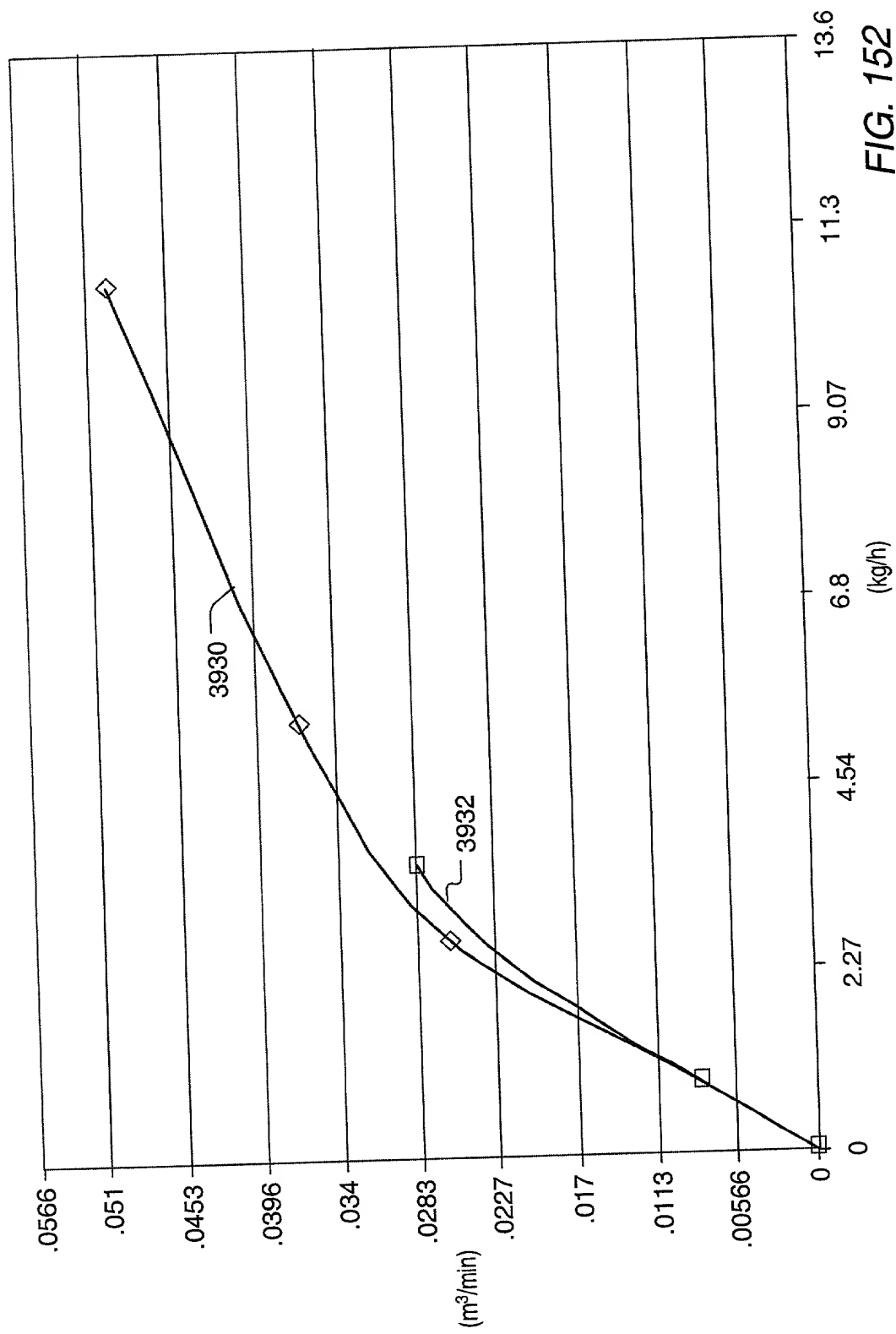


FIG. 152

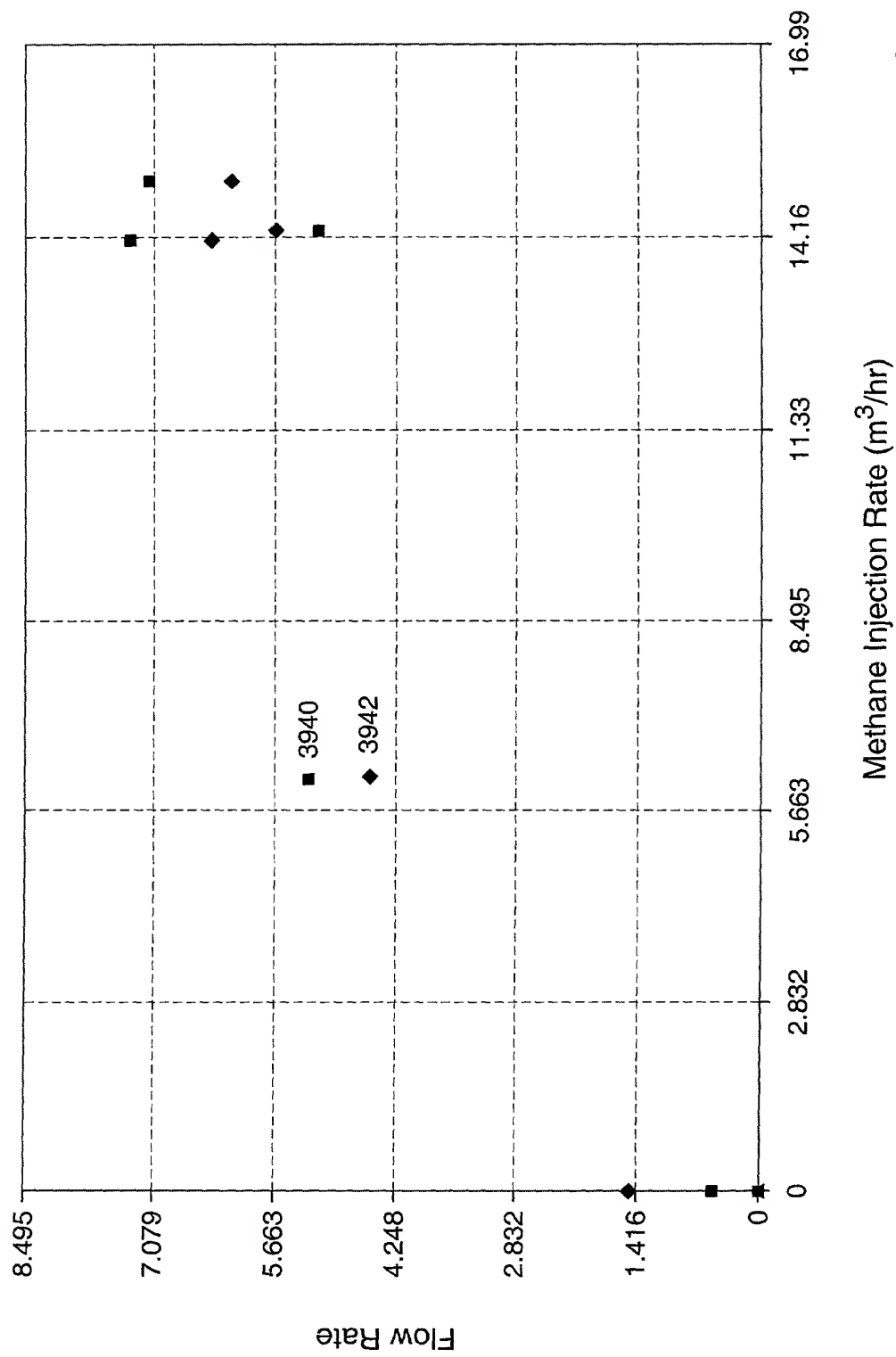


FIG. 153

A scatter plot showing the relationship between Flow Rate (m³/hr) on the y-axis and Ethane Injection Rate (m³/hr) on the x-axis. The y-axis ranges from 0 to 11.33 with major grid lines every 1.416 units. The x-axis ranges from 0 to 14.16 with major grid lines every 2.832 units. Three data series are plotted: Case 1 (diamonds), Case 2 (squares), and Case 3 (triangles). Case 1 shows a general downward trend, while Cases 2 and 3 show a more complex, non-linear relationship with multiple peaks and valleys.

Ethane Injection Rate (m³/hr)	Flow Rate (m³/hr) - Case 1 (Diamonds)	Flow Rate (m³/hr) - Case 2 (Squares)	Flow Rate (m³/hr) - Case 3 (Triangles)
0	0.0	0.0	0.0
0.708	0.708	0.708	0.708
1.416	1.416	1.416	1.416
2.124	2.124	2.124	2.124
2.832	2.832	2.832	2.832
3.540	3.540	3.540	3.540
4.248	4.248	4.248	4.248
4.956	4.956	4.956	4.956
5.664	5.664	5.664	5.664
6.372	6.372	6.372	6.372
7.080	7.080	7.080	7.080
7.788	7.788	7.788	7.788
8.496	8.496	8.496	8.496
9.204	9.204	9.204	9.204
9.912	9.912	9.912	9.912
10.620	10.620	10.620	10.620
11.328	11.328	11.328	11.328
12.036	12.036	12.036	12.036
12.744	12.744	12.744	12.744
13.452	13.452	13.452	13.452
14.160	14.160	14.160	14.160

■ 3950 ▲ 3952 ◆ 3954 × 3956

FIG. 154

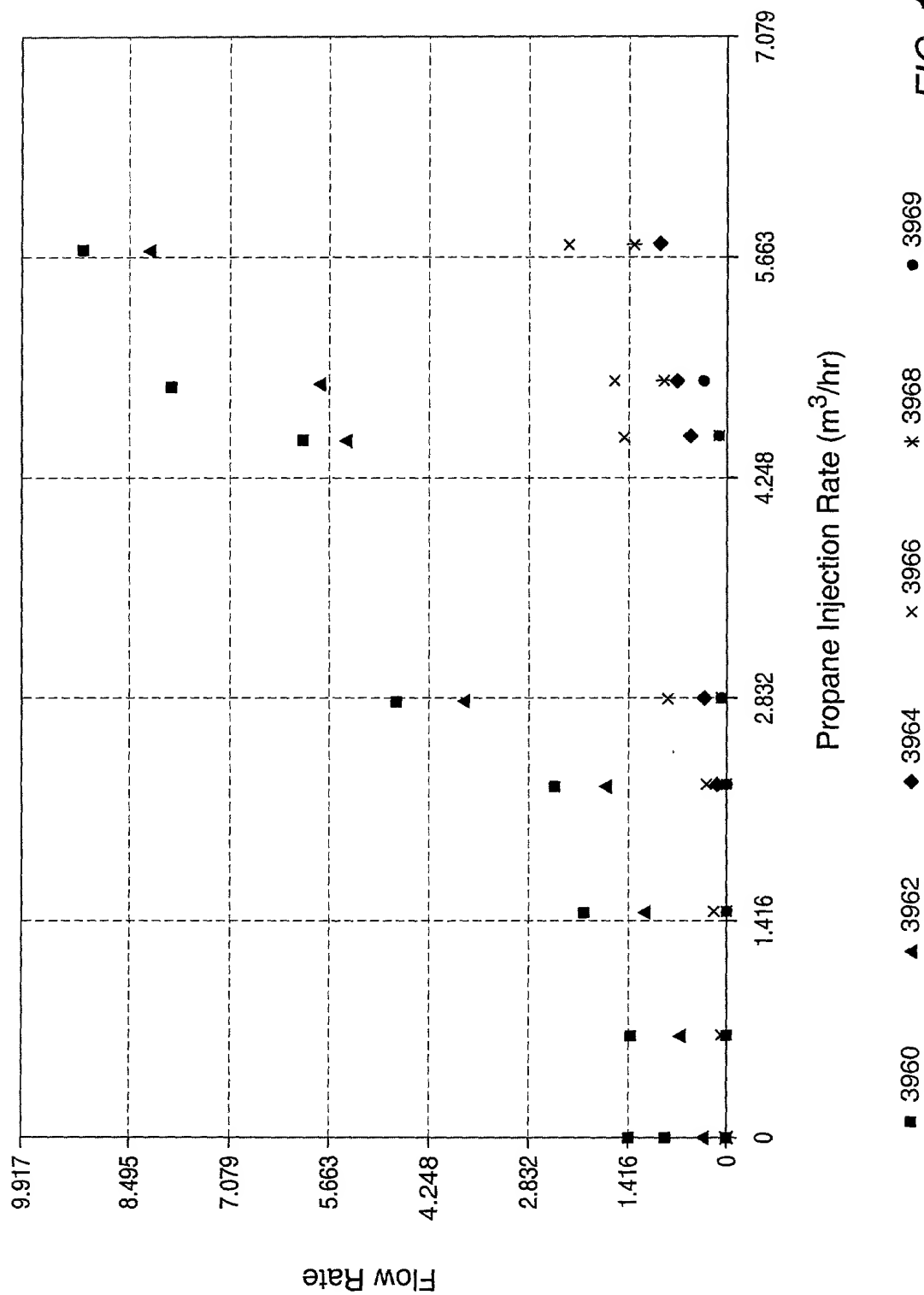
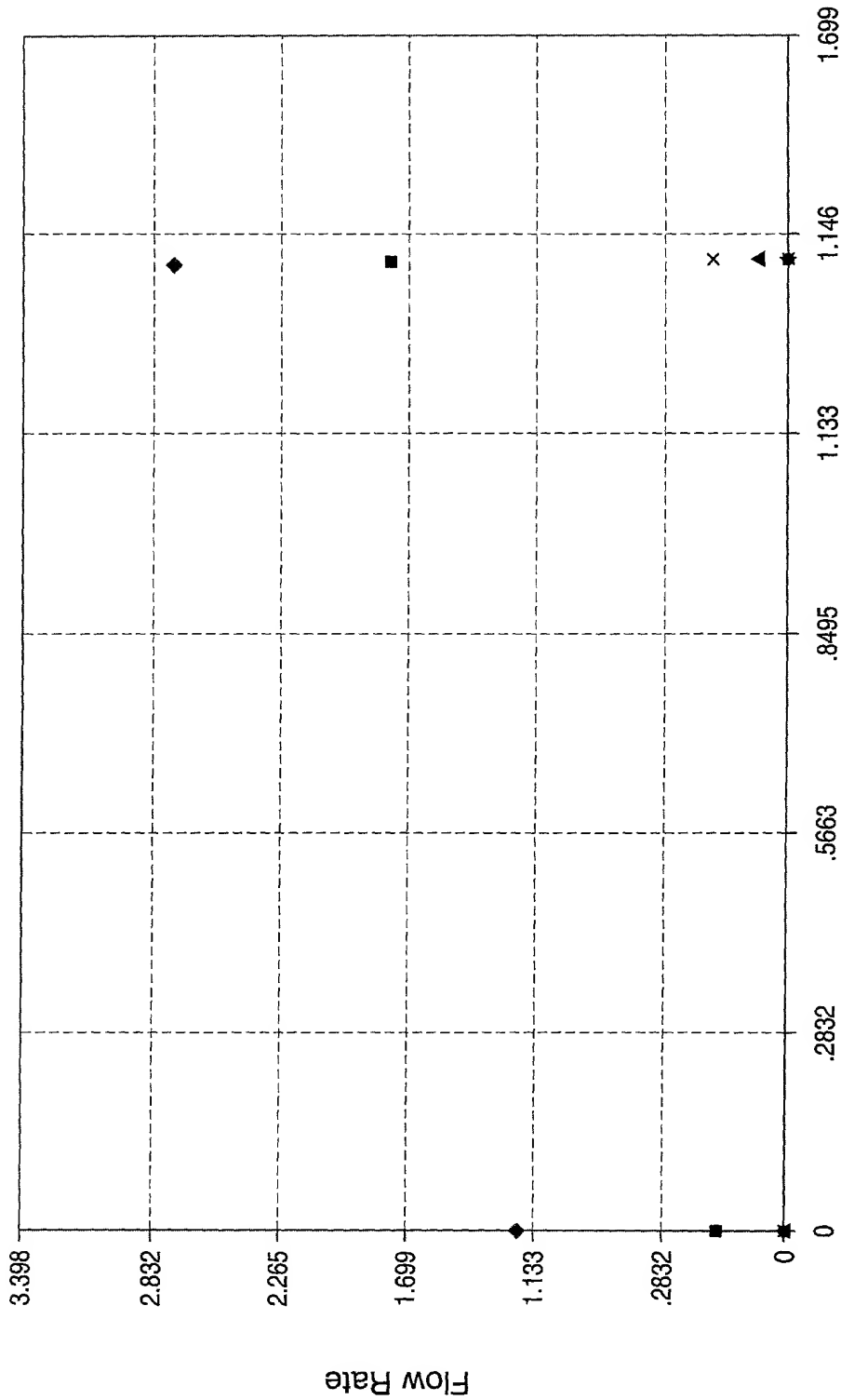


FIG. 155



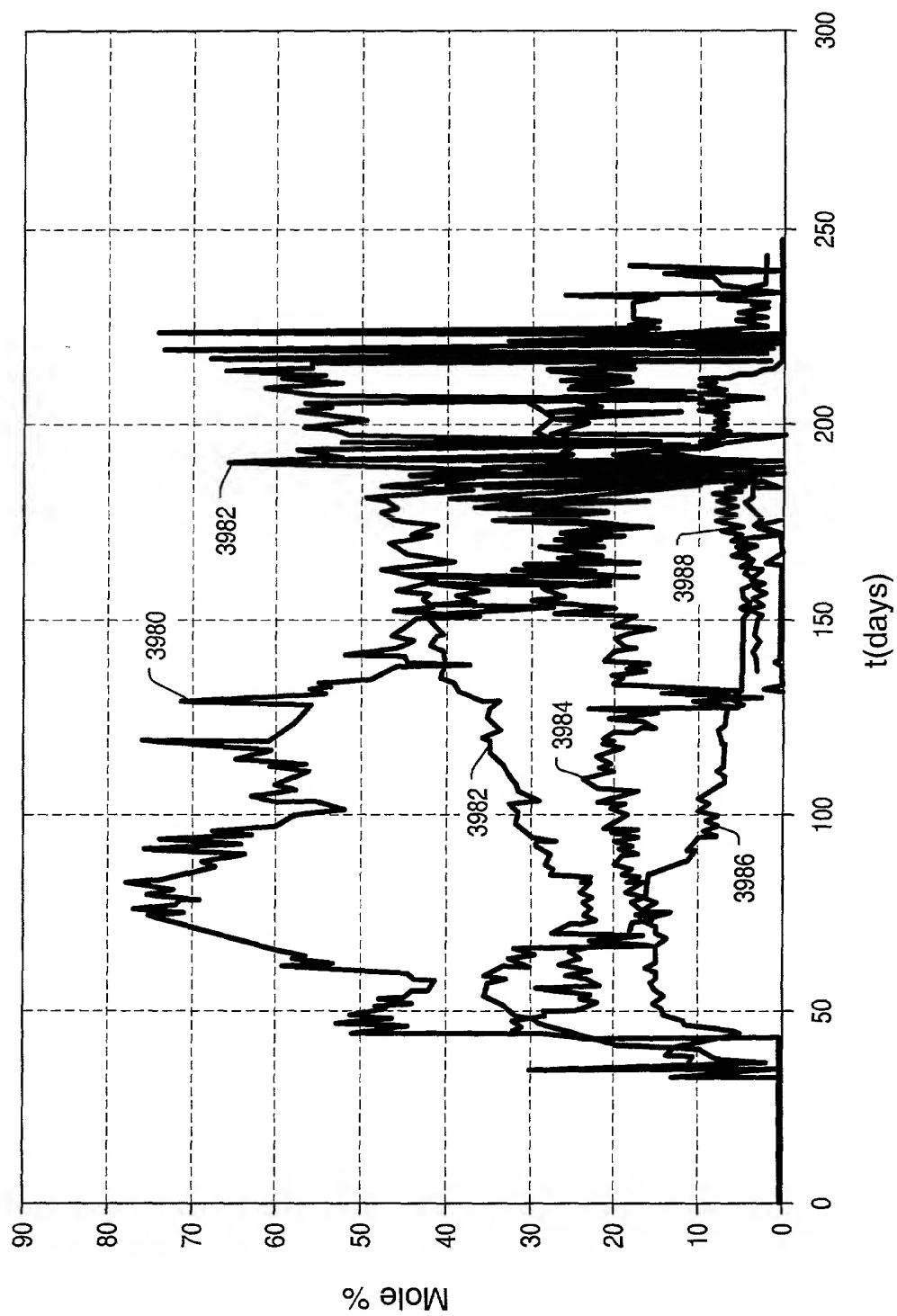


FIG. 157

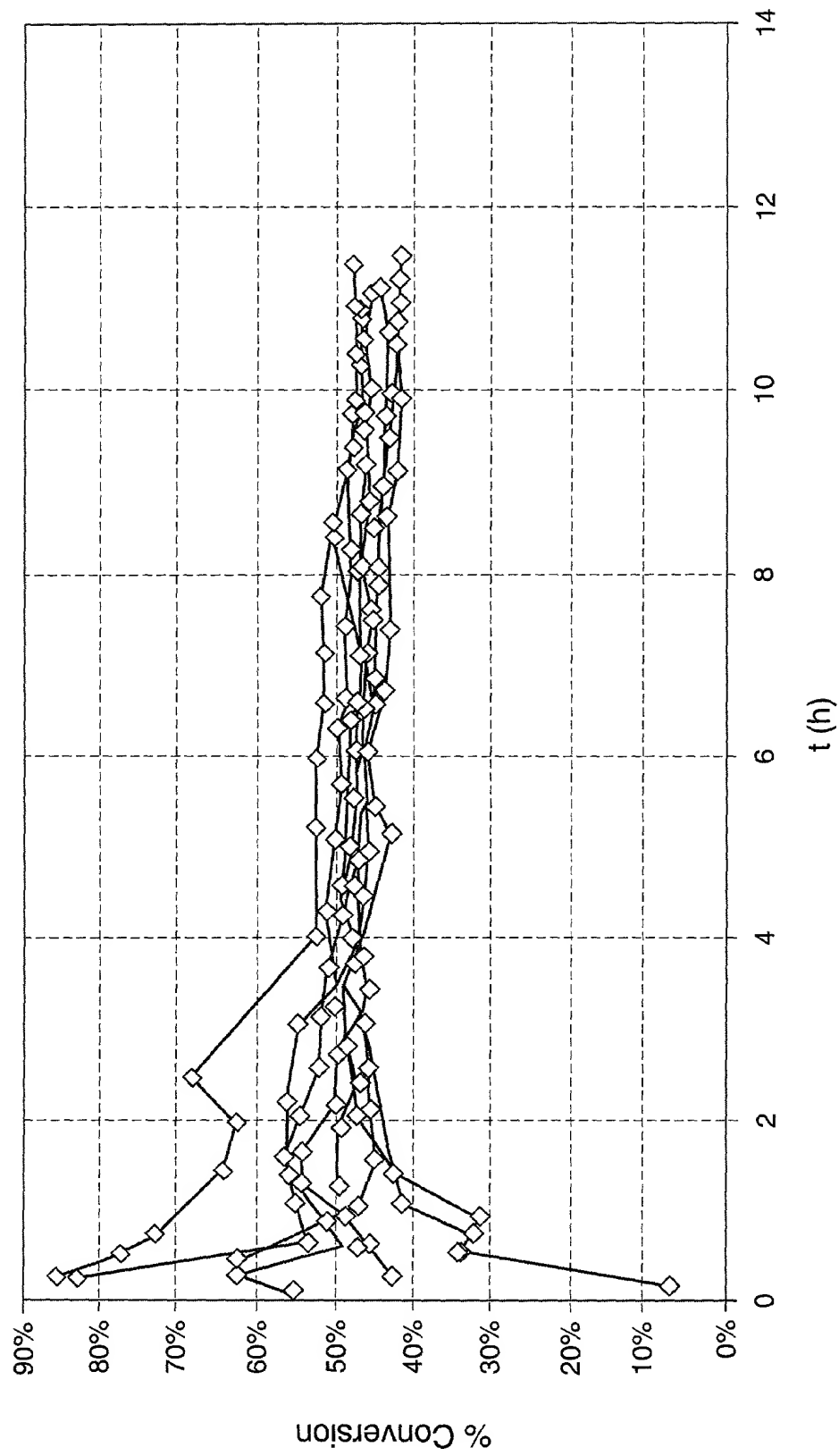


FIG. 158

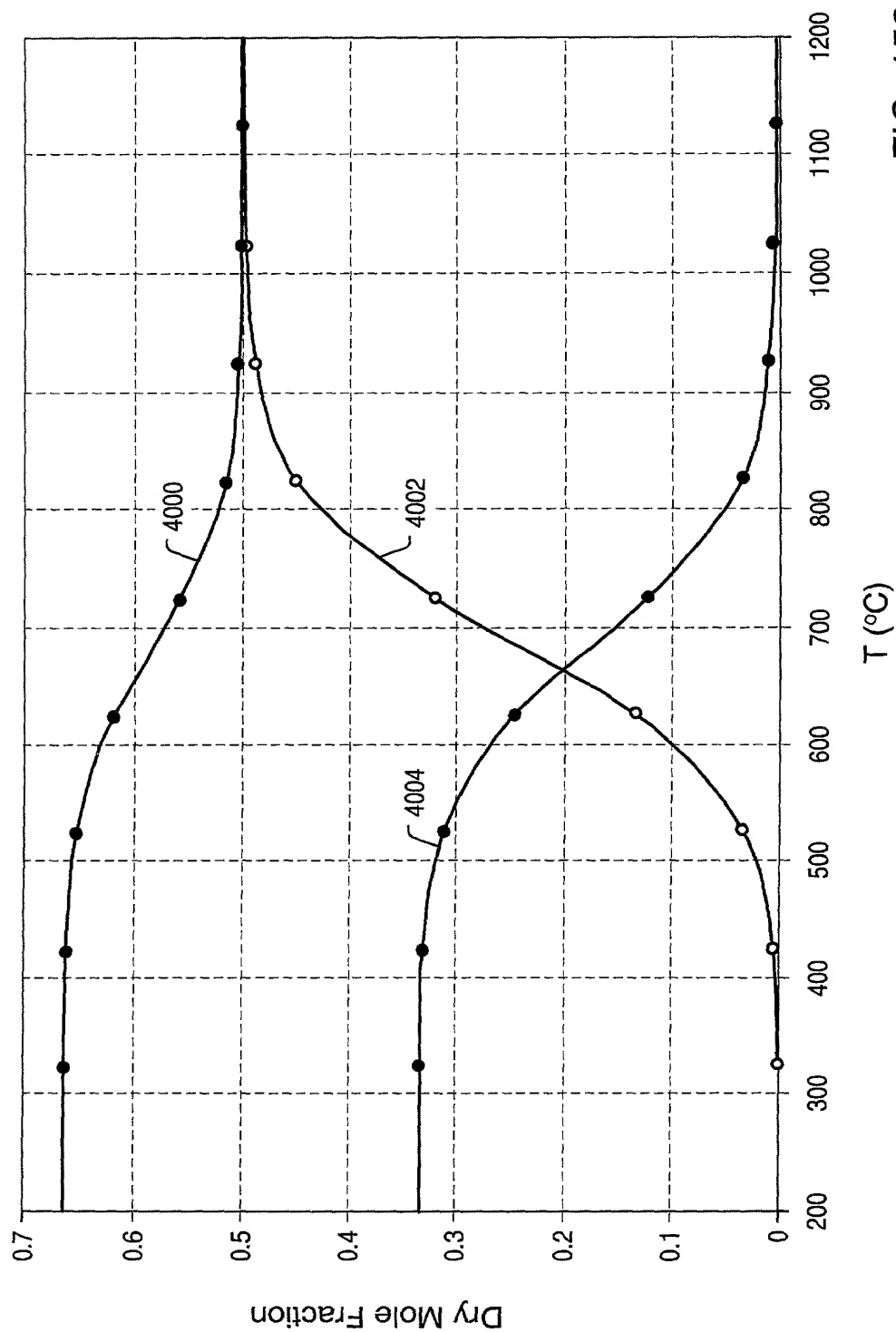


FIG. 159

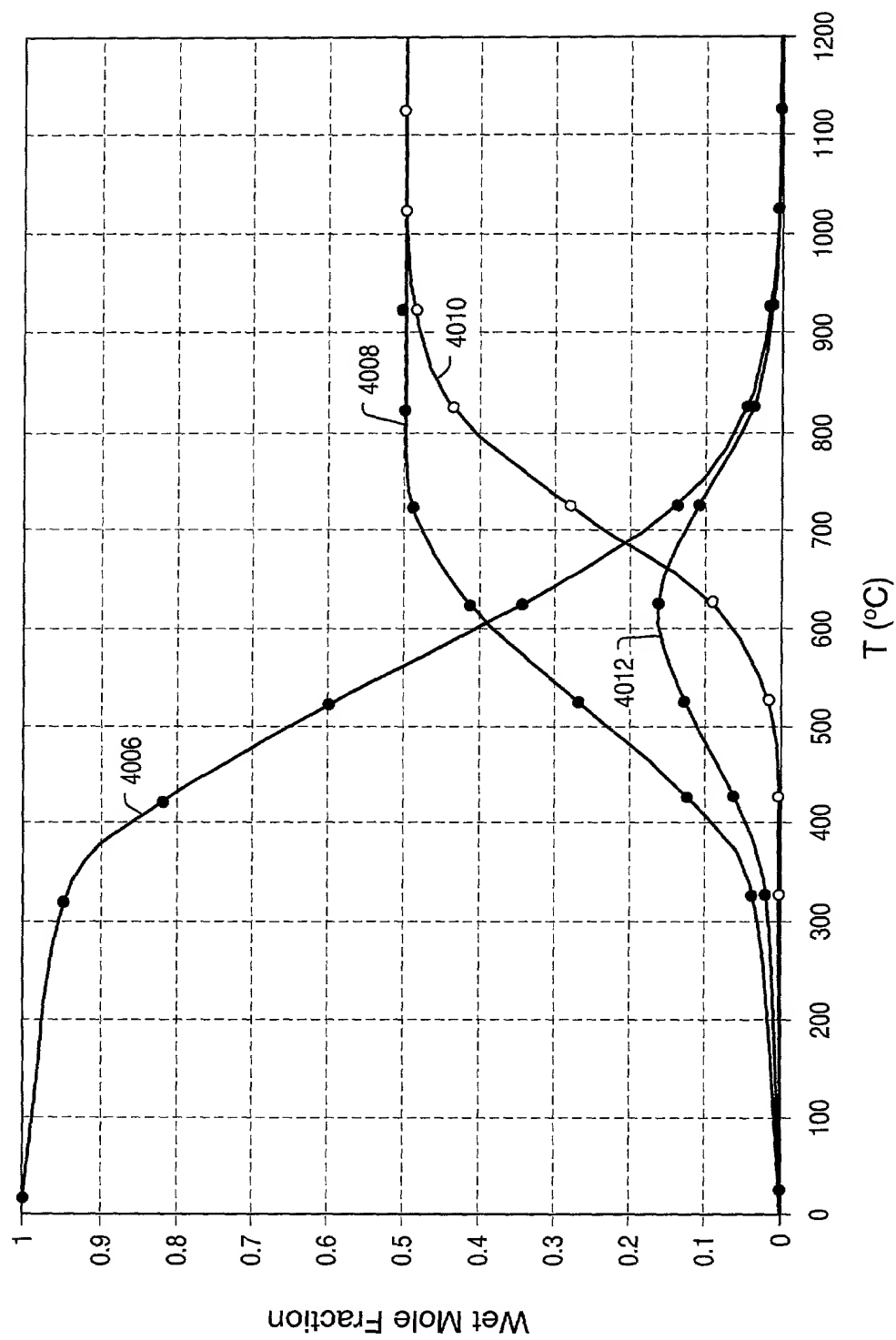


FIG. 160

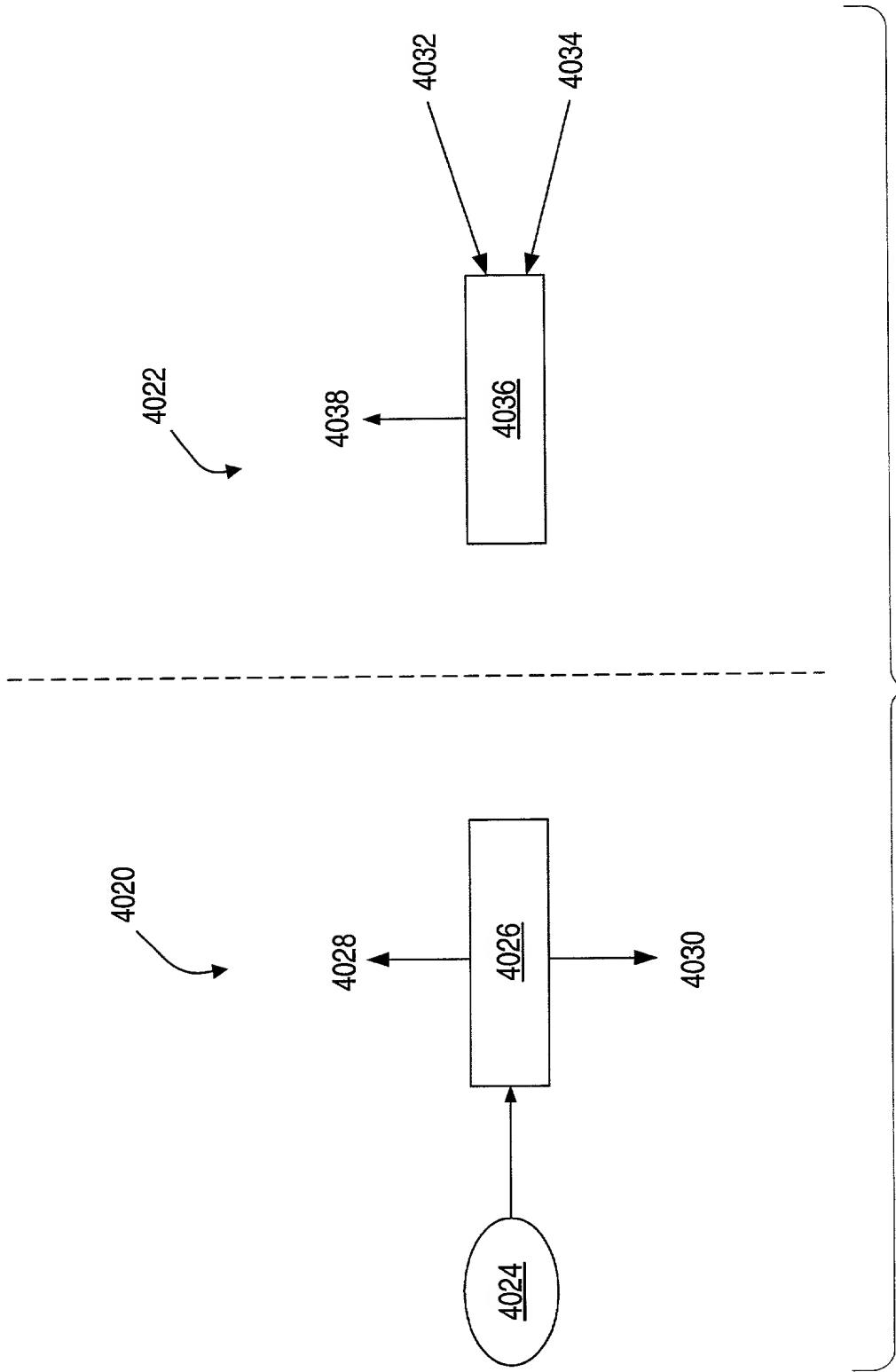


FIG. 161

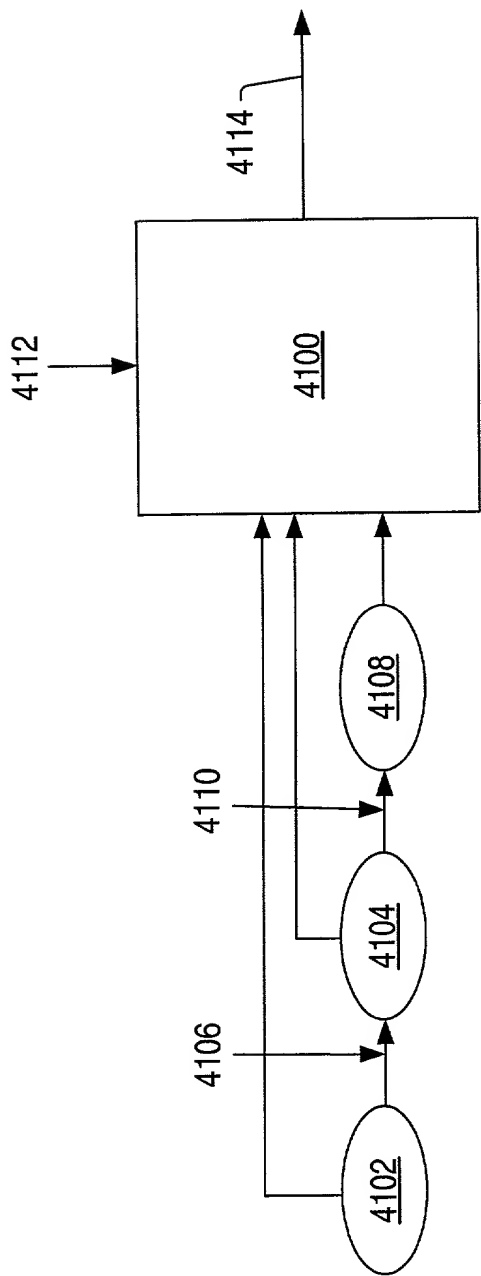


FIG. 162

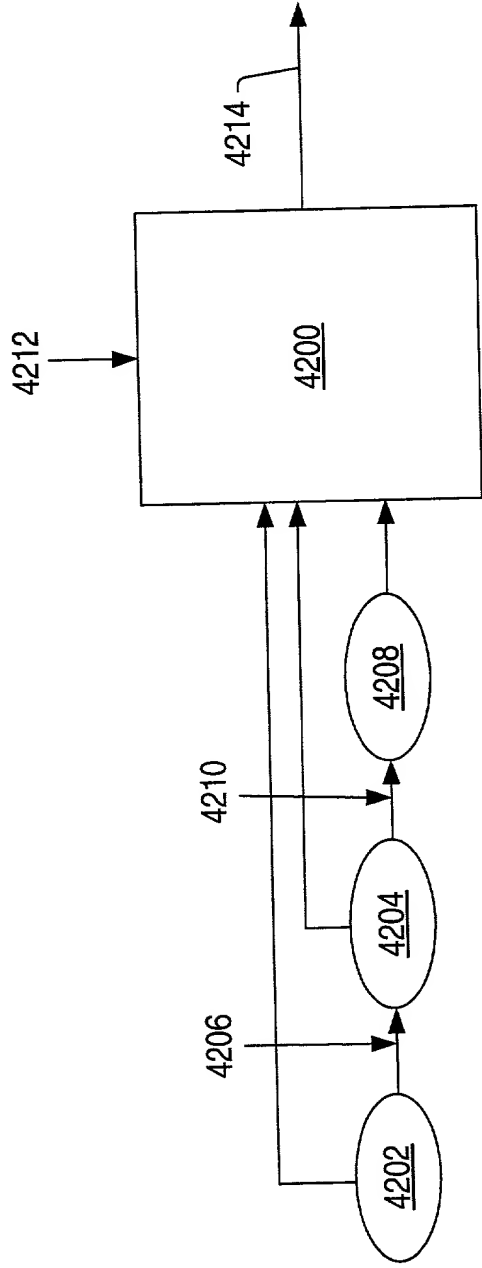


FIG. 163

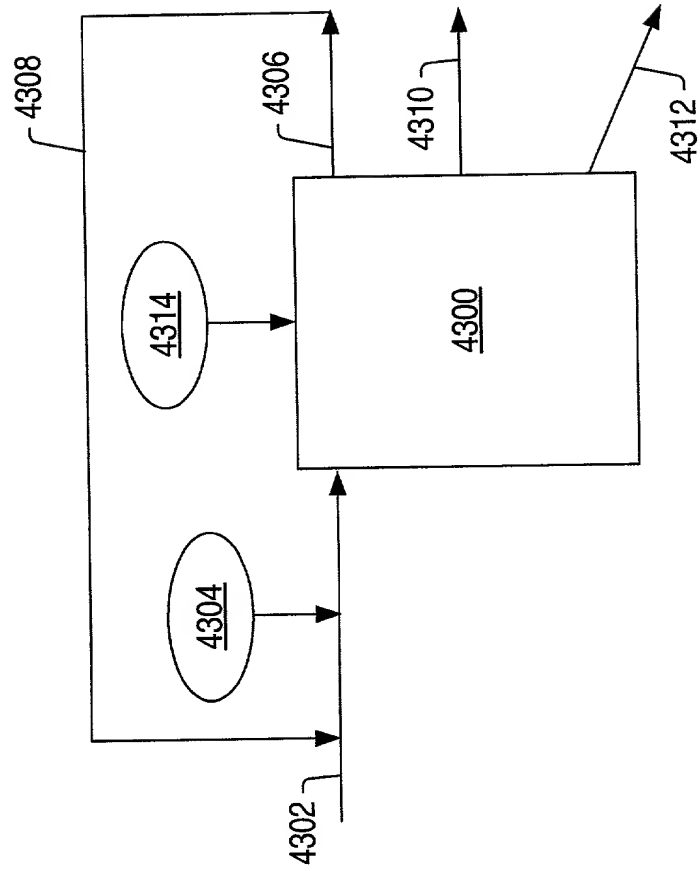


FIG. 164

FIG. 165

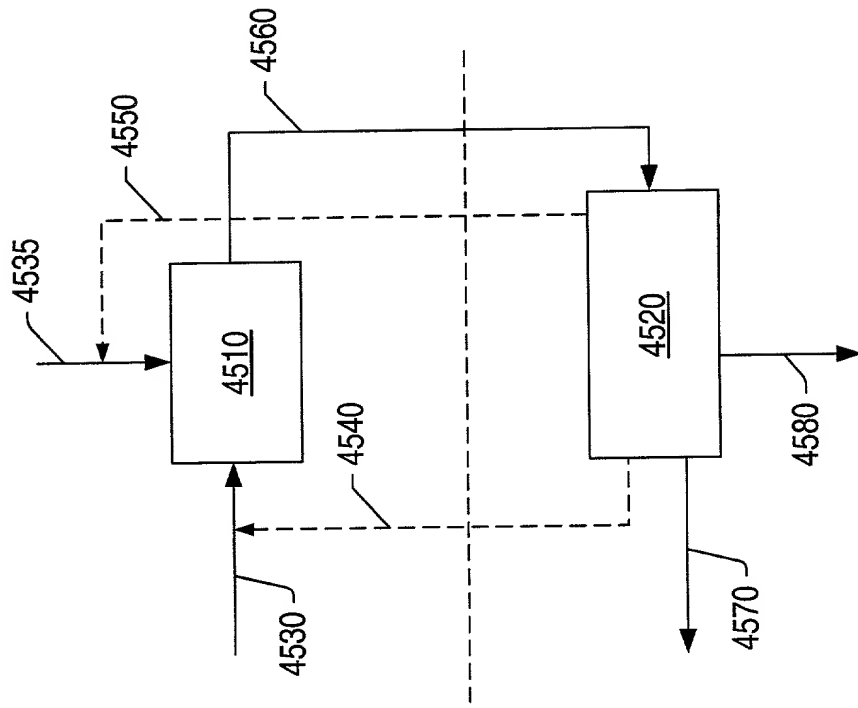


FIG. 166

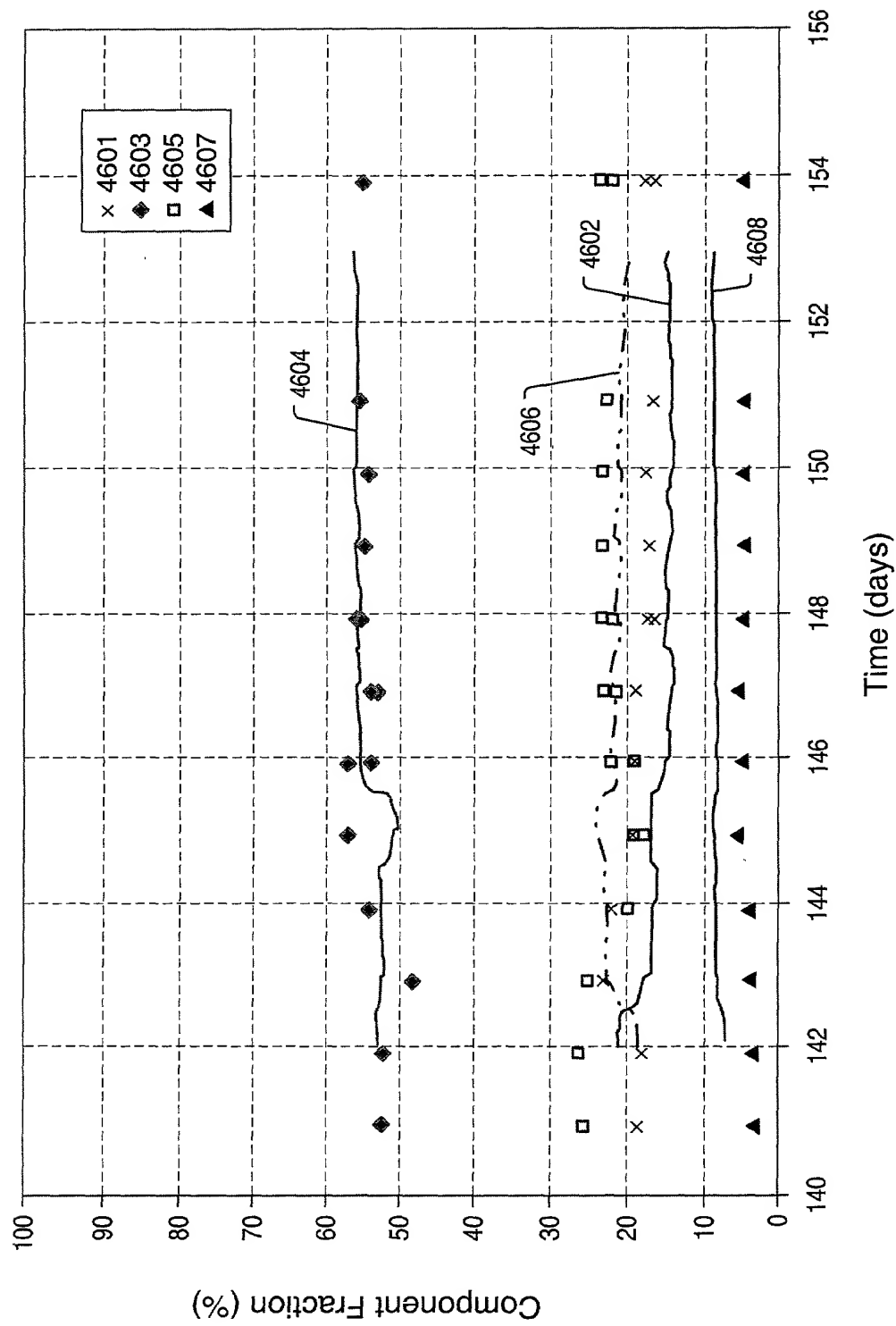


FIG. 167

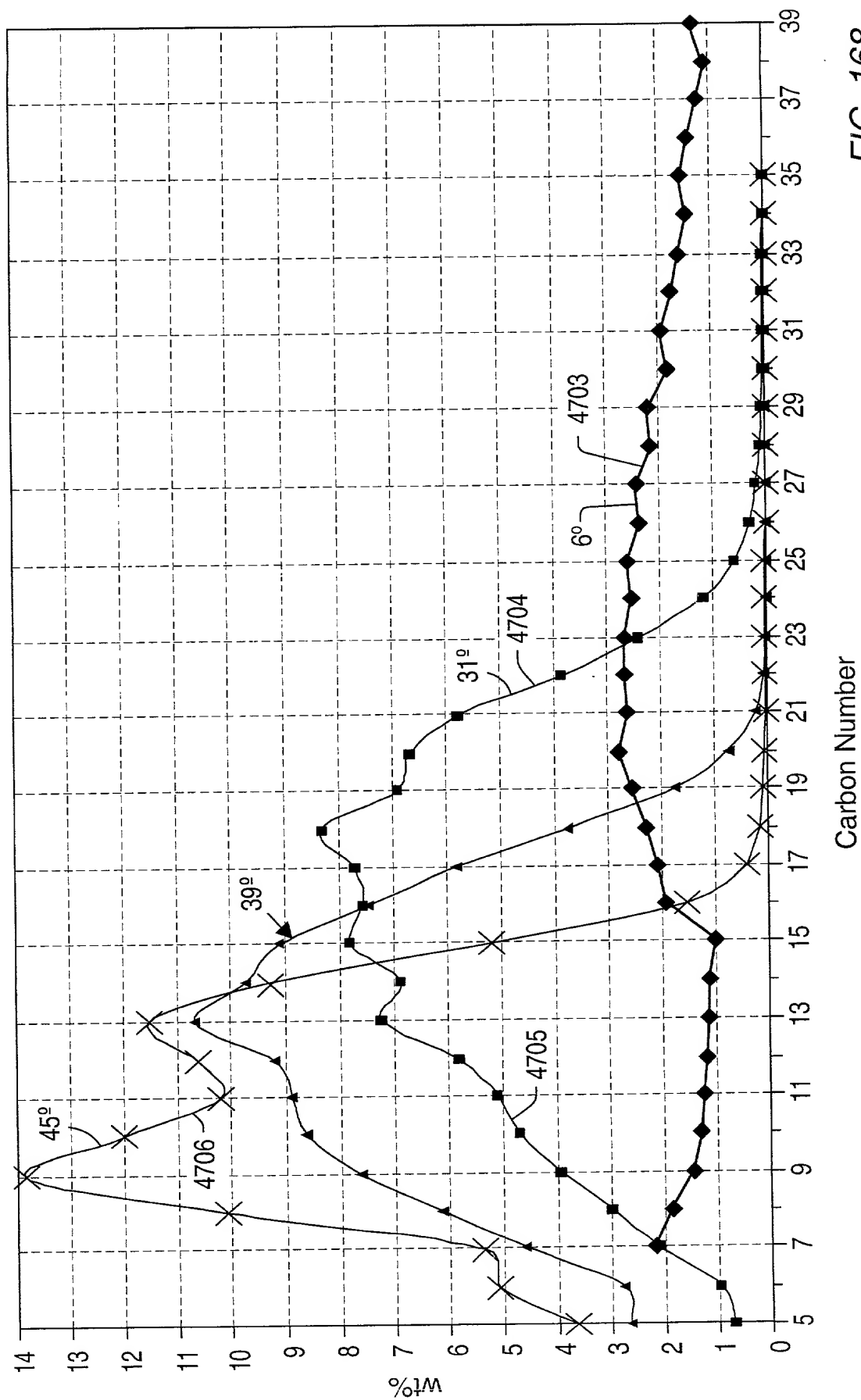


FIG. 168

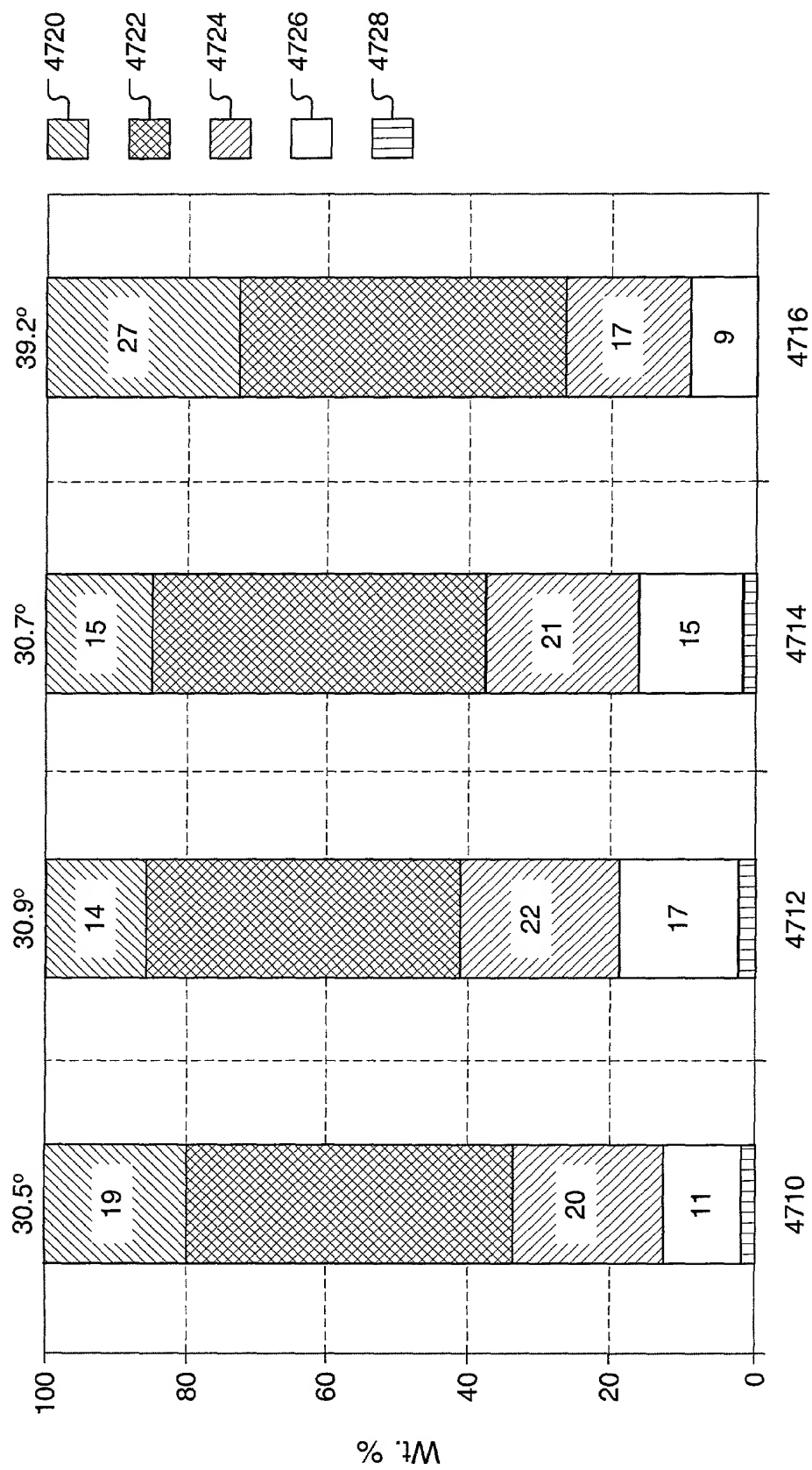


FIG. 169

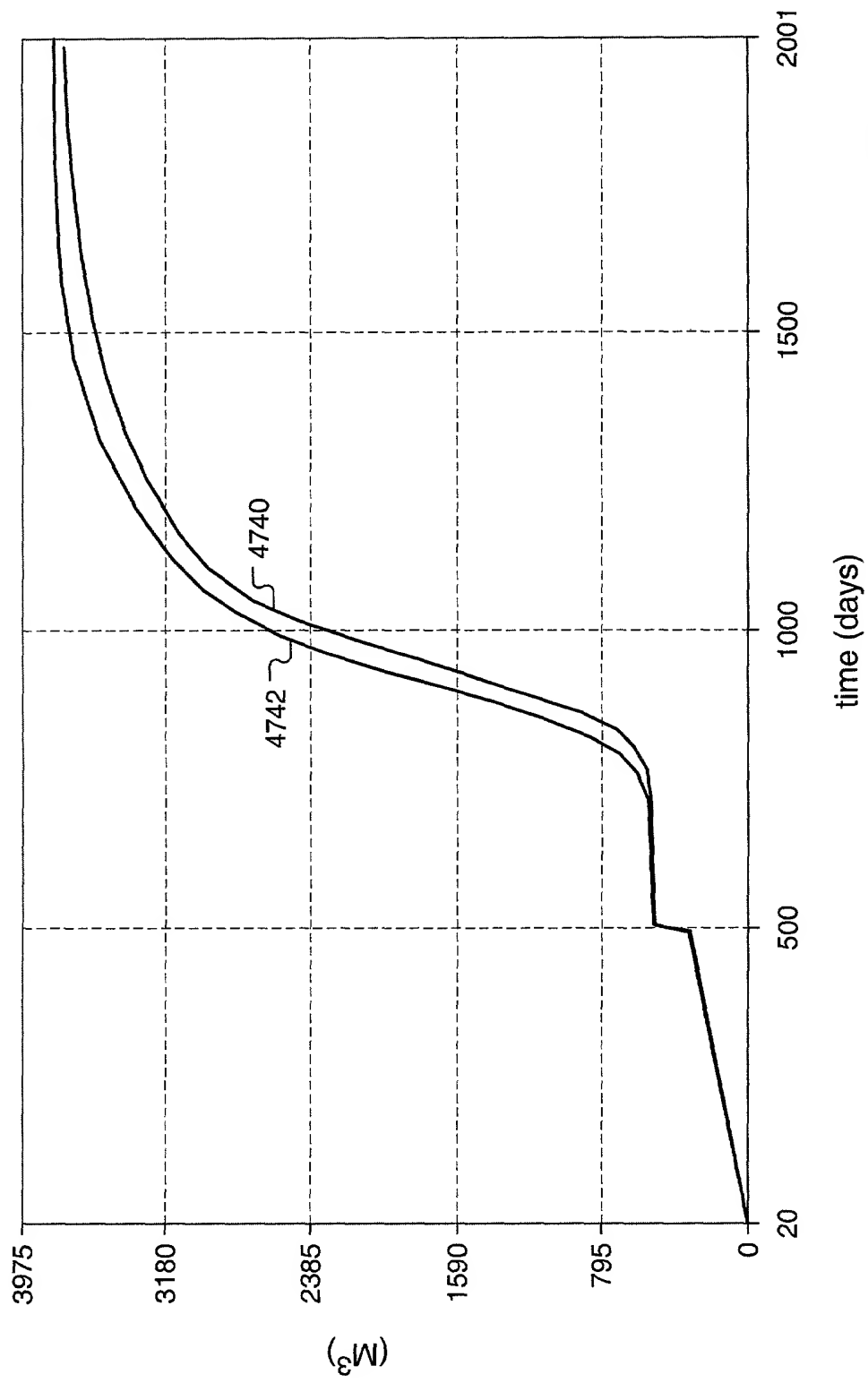


FIG. 170

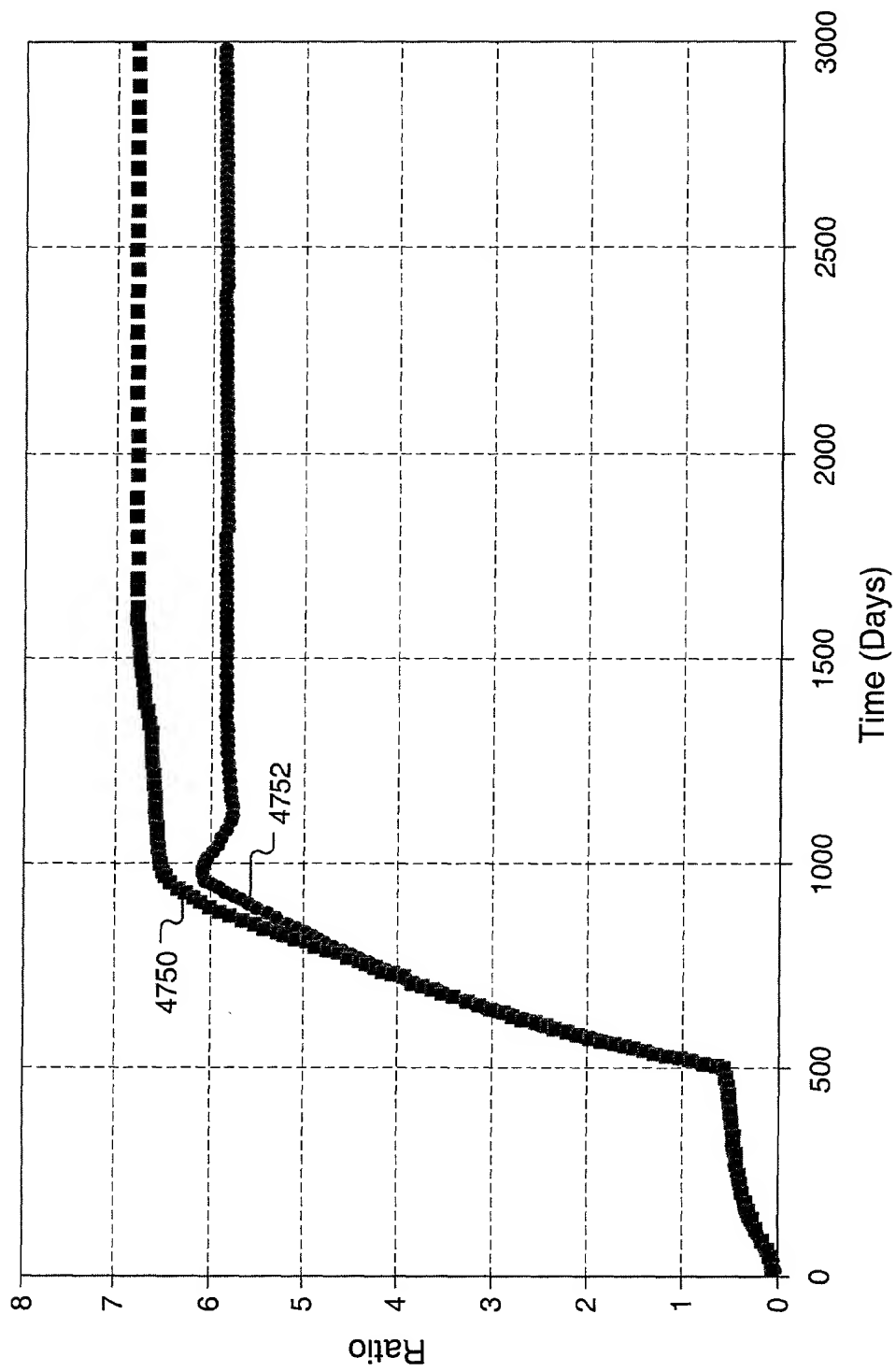


FIG. 171

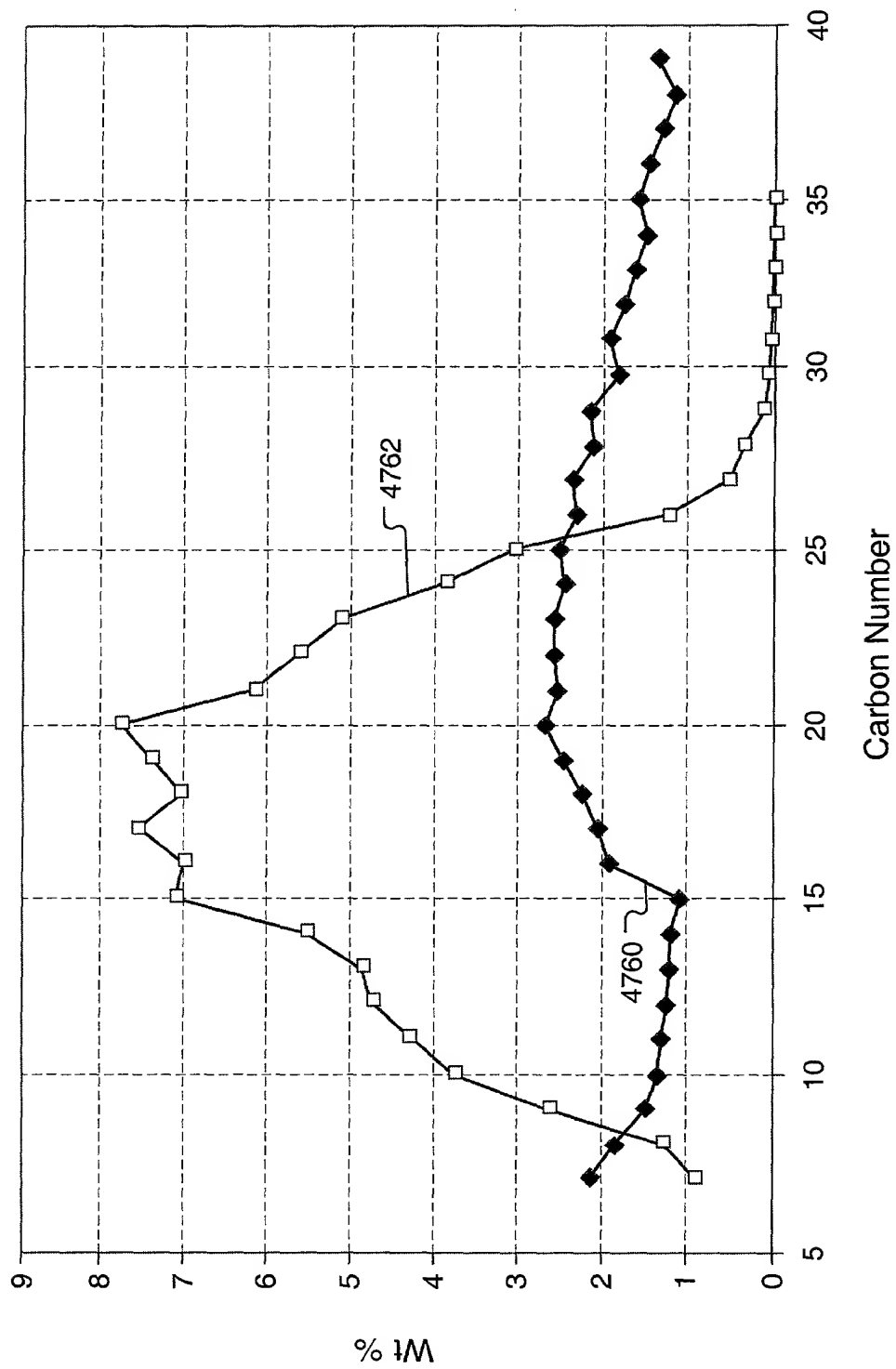


FIG. 172

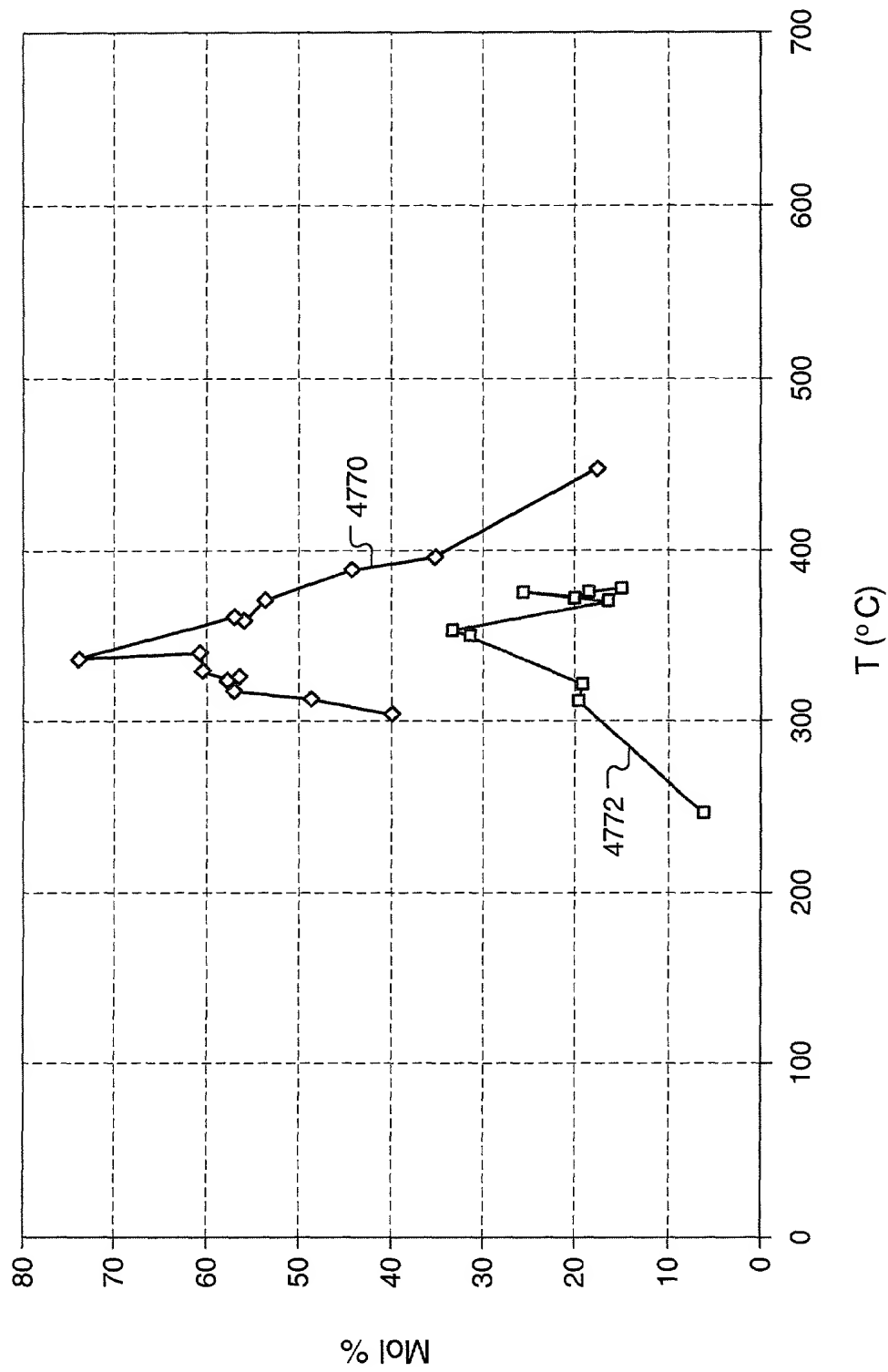


FIG. 173

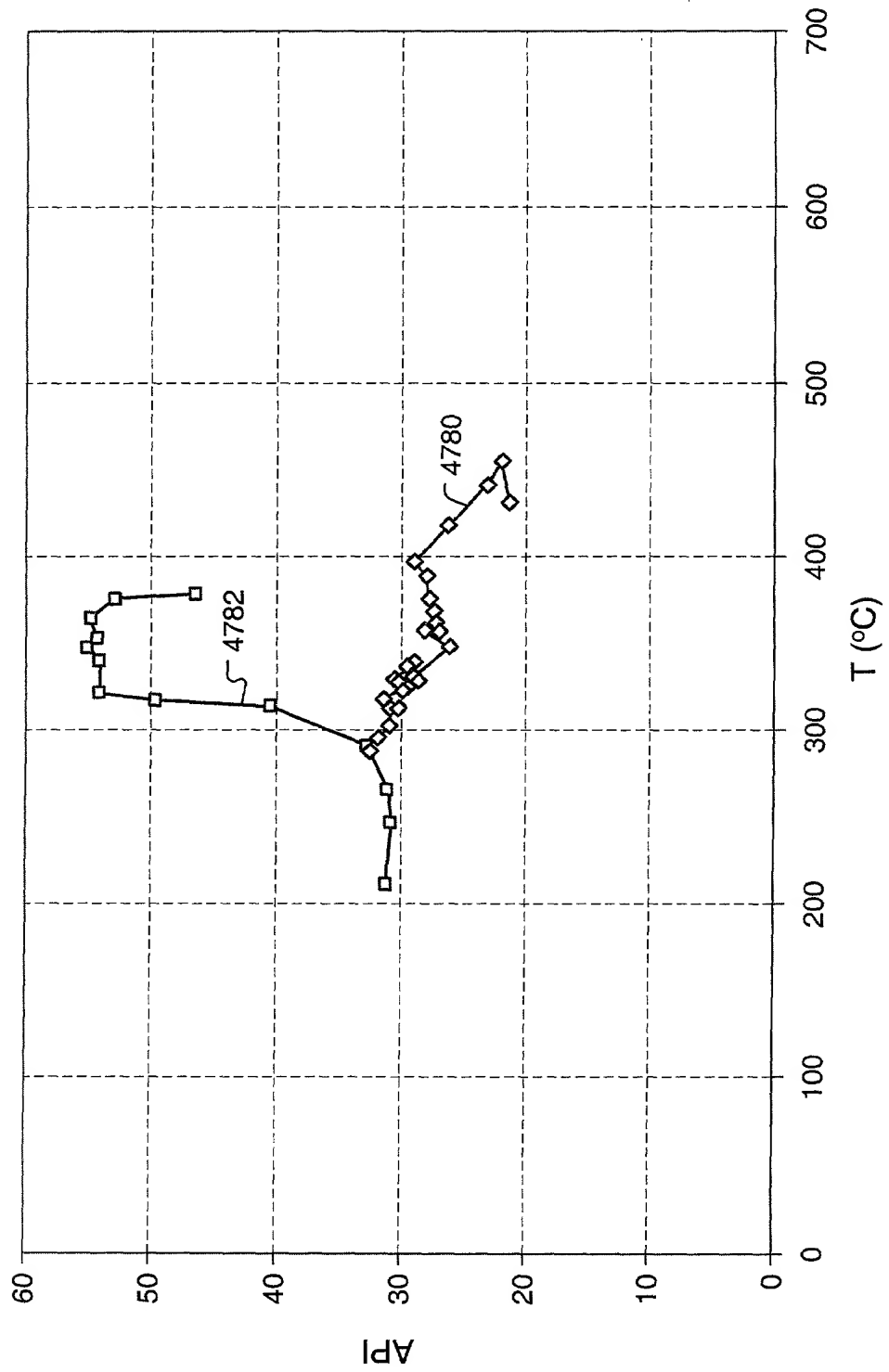


FIG. 174

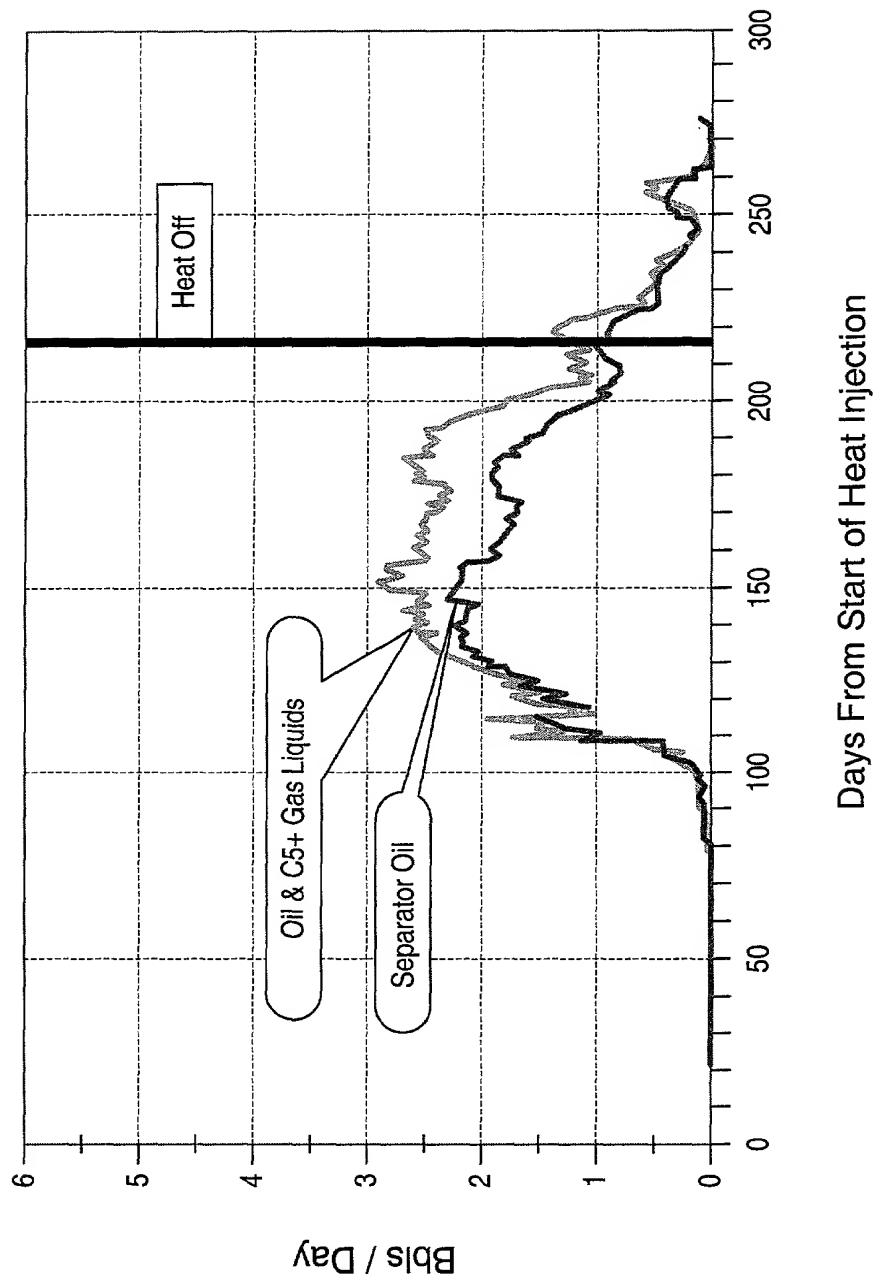


FIG. 175

FIG. 176

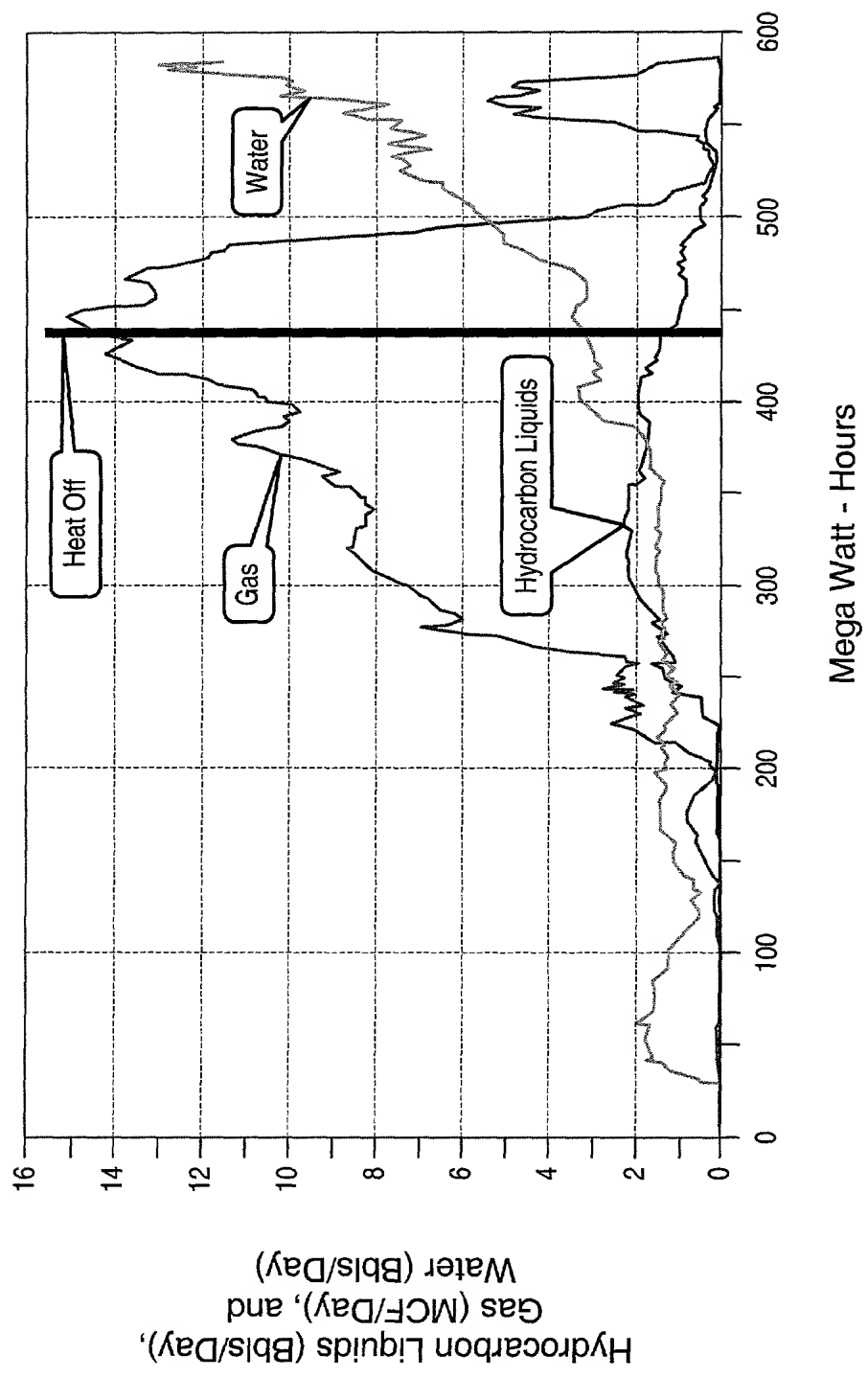


FIG. 176

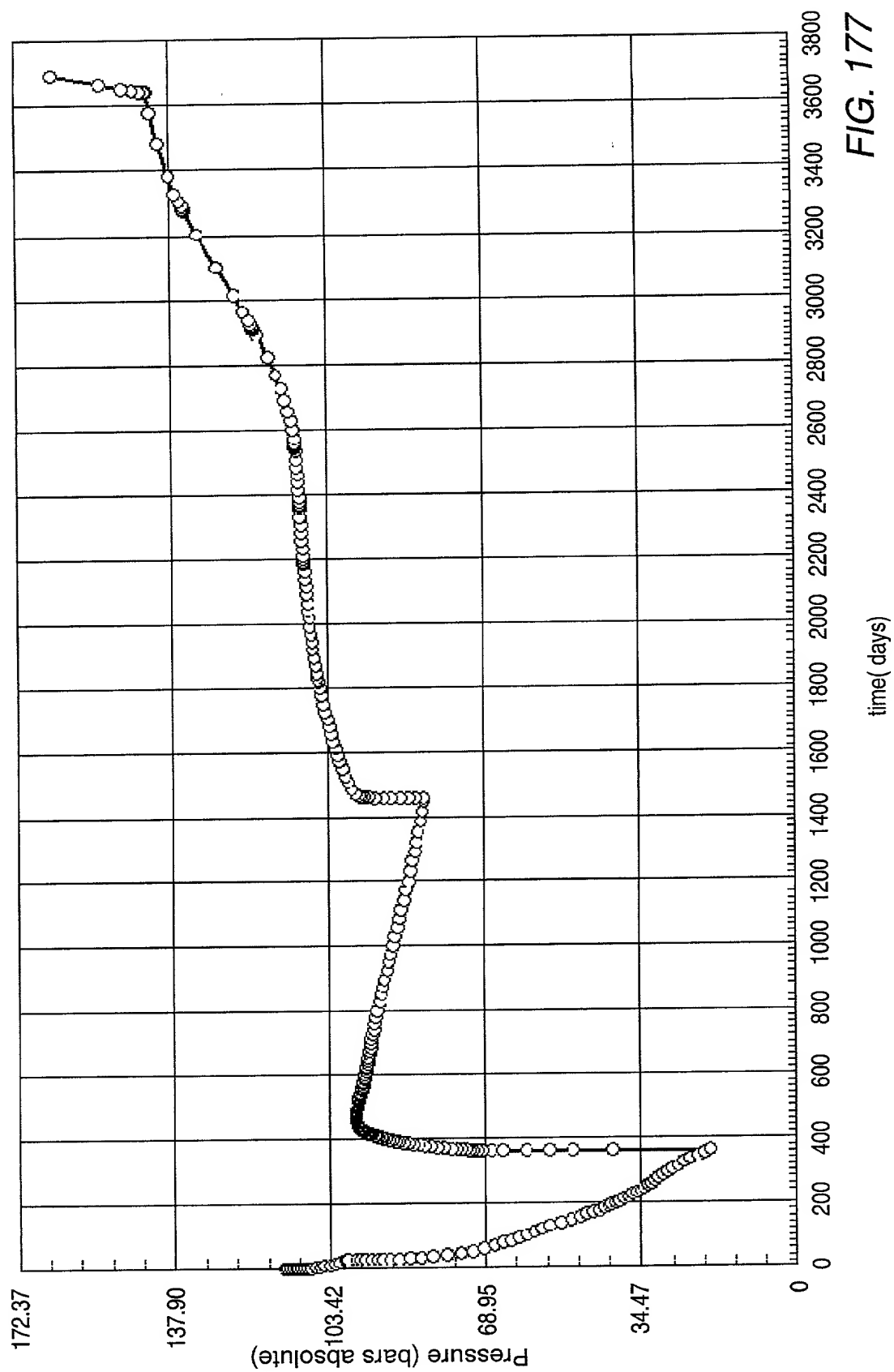


FIG. 177

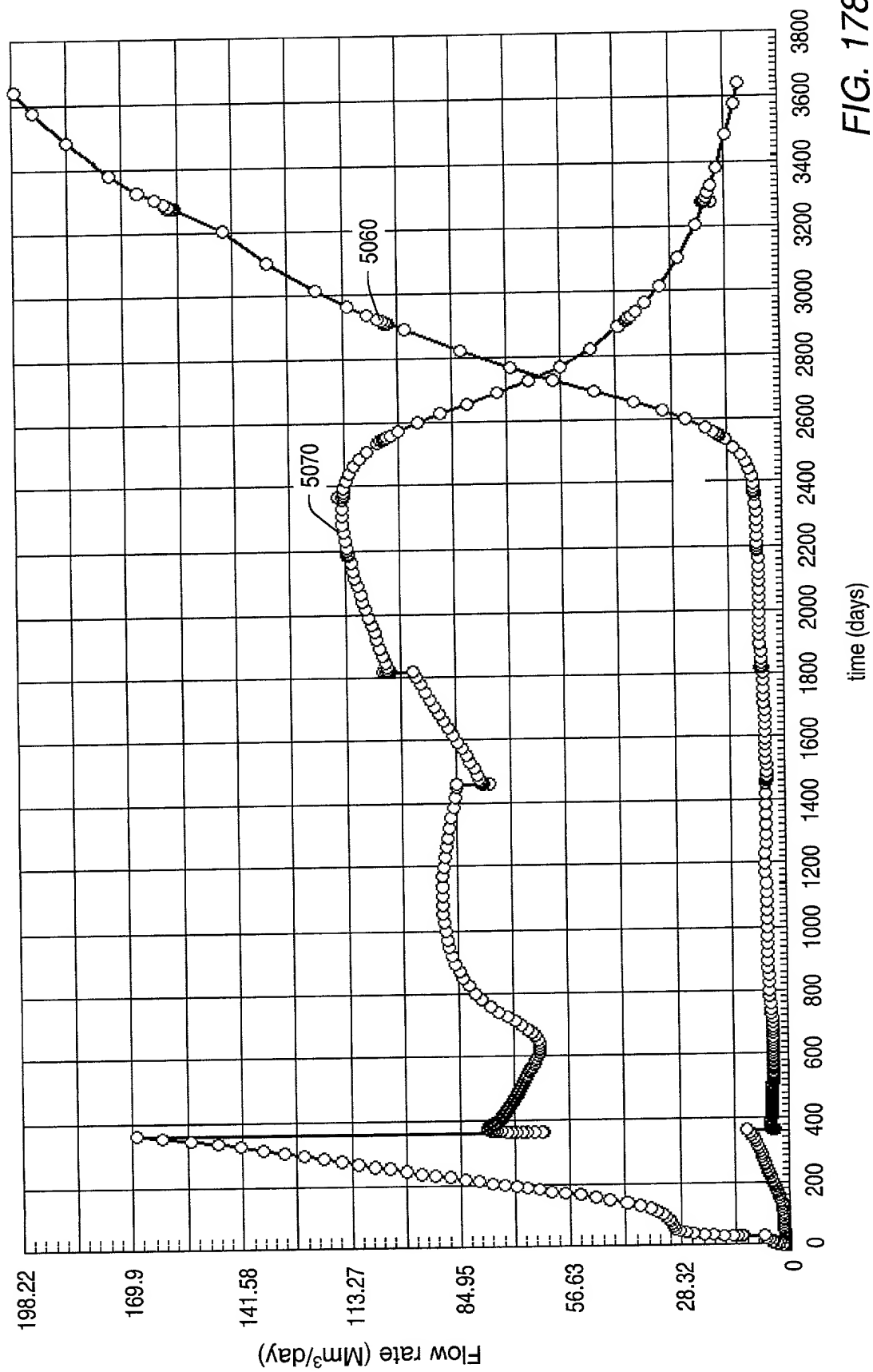


FIG. 178

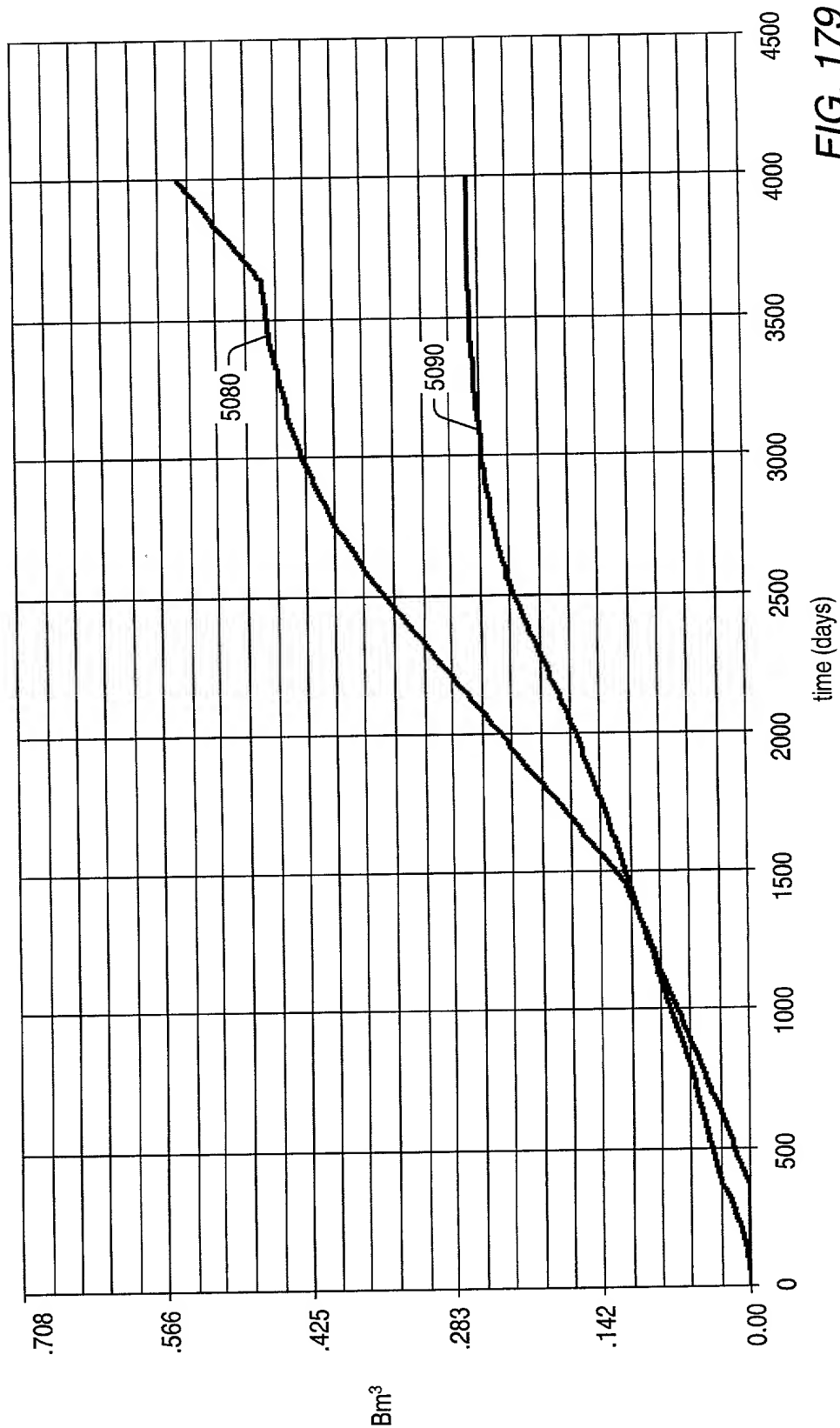


FIG. 179

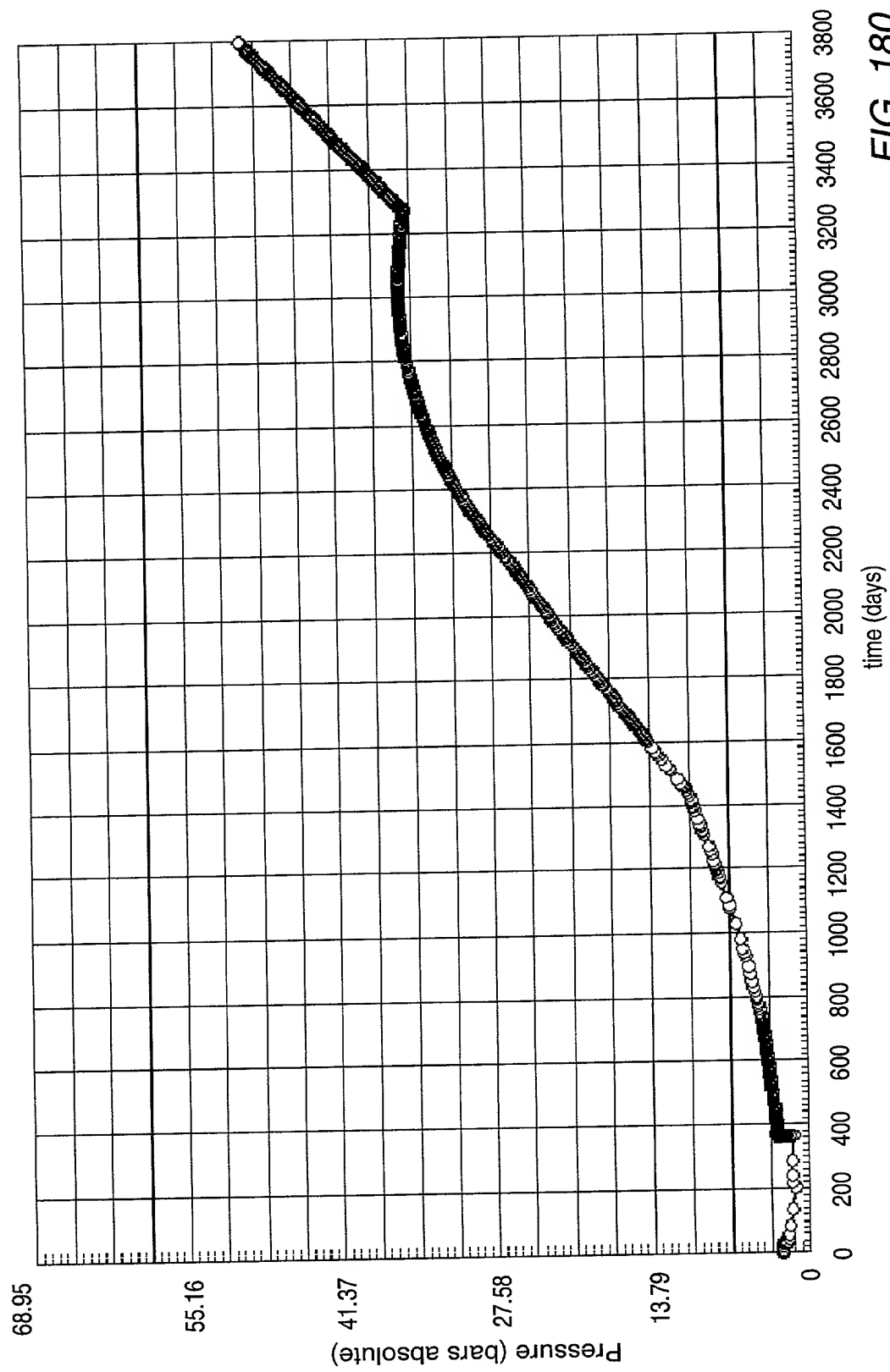


FIG. 180

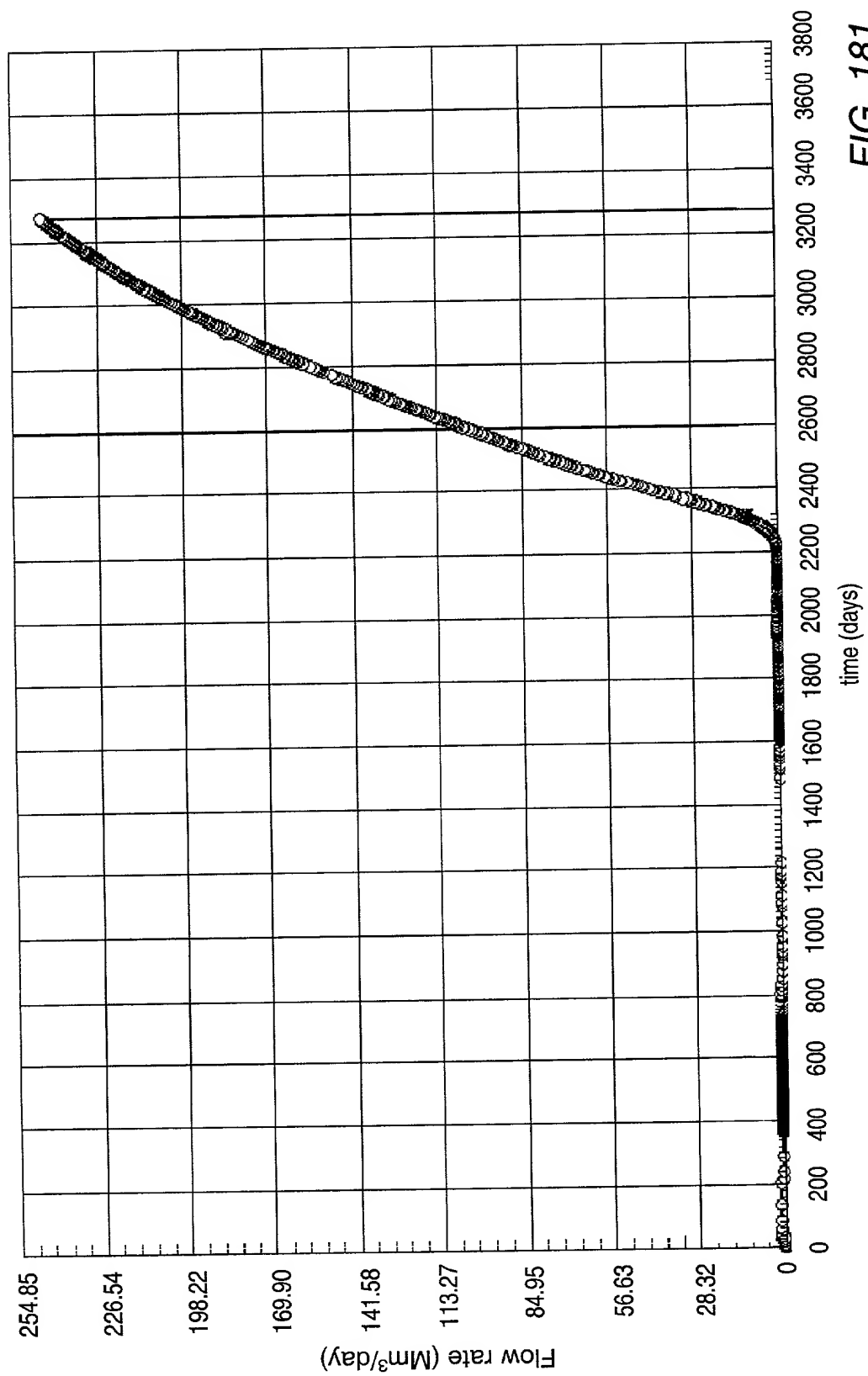


FIG. 181

FIG. 182

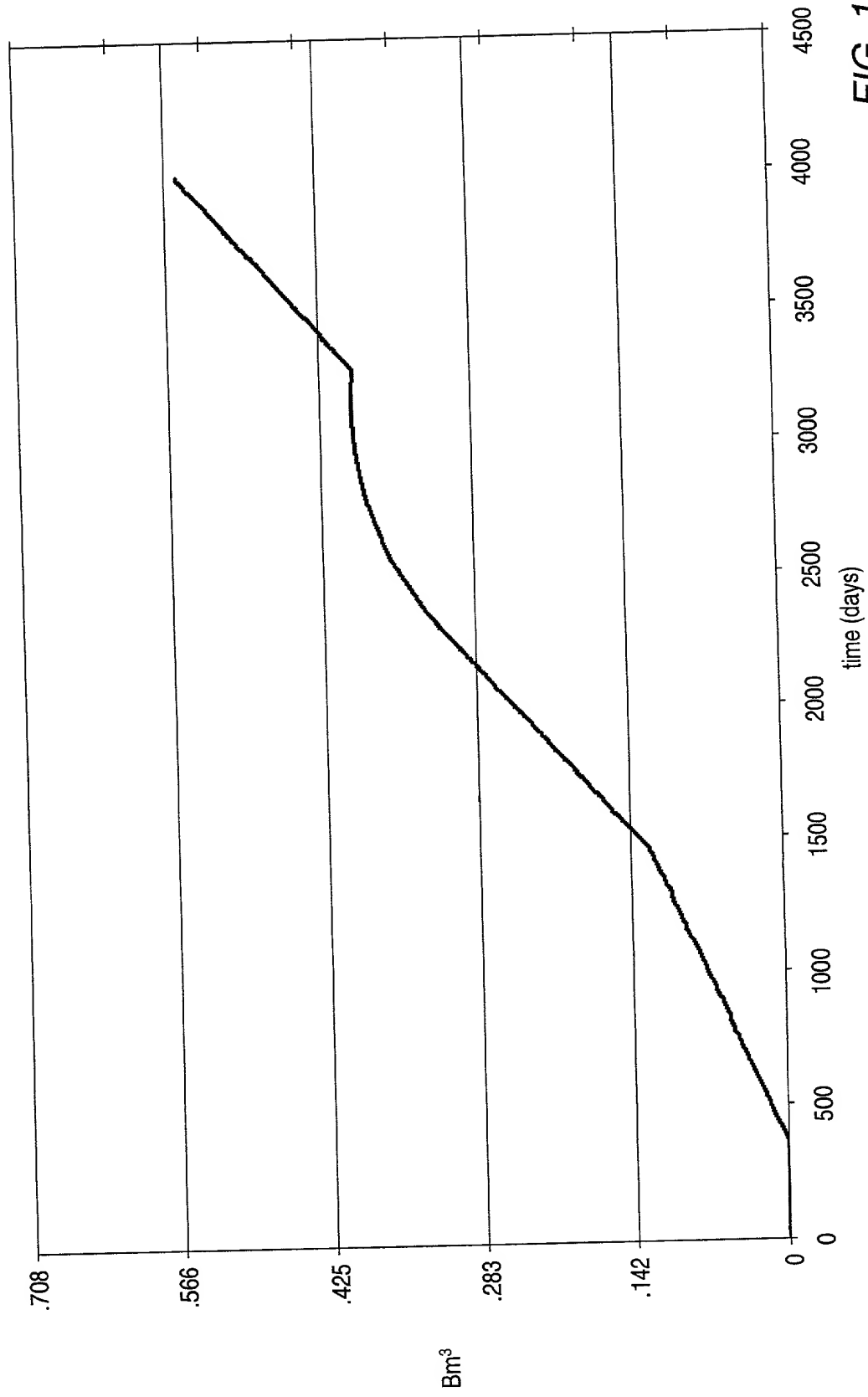


FIG. 182